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PERFORMANCE OF REMEDIAL RESPONSE  
ACTIVITIES AT UNCONTROLLED HAZARDOUS  
WASTE SITES (REM II)

DRAFT

PHASE II REMEDIAL INVESTIGATION  
DOCUMENTATION REPORT

FOR THE

SOUTHERN MARYLAND WOOD TREATING SITE  
HOLLYWOOD, MARYLAND  
VOLUME II

August, 1987

Work Assignment No.: 95-3LE8

Document No.: 193-RI2-RT-EZKH

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**APPENDIX A**  
**SUPERFUND PROCESS**

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## APPENDIX A

### SUPERFUND PROCESS

#### A-1 REM II AND SUPERFUND IMPLEMENTATION

CERCLA establishes a national program for responding to releases of hazardous substances into the environment. In addition, the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the process for determining appropriate remedial actions at Superfund sites. Together, CERCLA and the NCP require that a remedial action selected for a Superfund site be cost-effective and that it be adequate to protect public health.

#### A-2 THE RI/FS PROCESS

In accordance with the NCP, potential hazard waste sites are subjected to a preliminary assessment, if necessary, detailed site inspection. If evidence of hazardous waste activity is found, posing an actual or potential threat to public health and/or the environment, it must be determined whether removal of the wastes is necessary.

If removal actions are not required, an evaluation is made of the potential threat to public health and/or the environment relative to that posed by other potential hazardous waste sites. In this manner, a relative ranking is developed as the basis for inclusion of the site on the National Priorities List (NPL). Inclusion of a site on the NPL is a prerequisite for expenditure of monies from Superfund to conduct a more detailed site investigation and evaluation of remedial action alternatives.

A detailed site investigation and a remedial alternative consideration are conducted as a remedial investigation/feasibility study (RI/FS), in accordance with the NCP. The RI/FS is an integrated approach. The RI characterizes the nature and extent of contamination at the site, identifies potential containment migration pathways and exposure routes, and evaluates the present and/or potential threat to the public and the environment due to site contamination. Data gathered during the RI are used for the development and evaluation of possible remedial action alternatives in the FS. In the FS phase report, feasible technologies (e.g., surface-water diversion, capping, landfilling, treatment) are defined to mitigate or eliminate the health or environmental threats identified in the RI. These technologies are assembled into alternative remedial actions and subjected to an initial screening to identify those that address the goals of remedial action and can be implemented, and to

eliminate inappropriate and most costly alternatives. Those alternatives remaining following the initial screening phase are subjected to more rigorous evaluation.

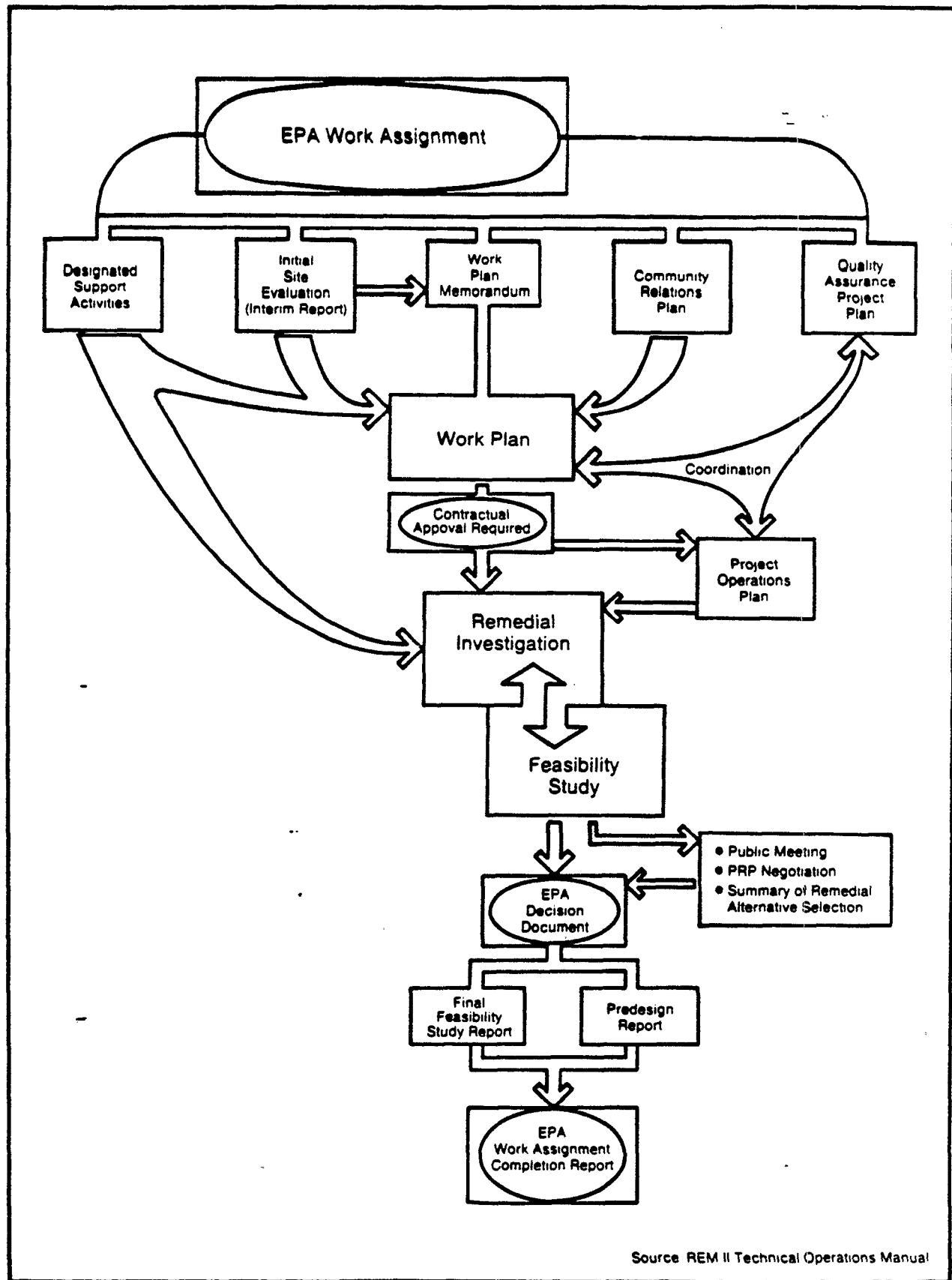
The RI/FS process results in an objective, comparative evaluation of the most appropriate remedial alternatives to meet the cleanup objectives for the site. This evaluation is prepared in the form of a draft report and subjected to public and agency review and comment. A final RI/FS report is prepared summarizing comments received during the public review period and comment responses. Based on the final RI/FS report, EPA selects the recommended remedial action alternatives.

The purpose of the REM II program is to provide technical and management services in support of EPA remedial planning enforcement and activities at selected uncontrolled hazardous substance disposal sites. This program was established under CERCLA, commonly referred to as Superfund. EPA's Hazardous Site Control Division (HSCD), through Contract No. 68-01-6939, has employed Camp Dresser & McKee, Inc. (CDM) of Boston, Massachusetts to implement remedial response activities in EPA Regions I through X.

Contract No. 68-01-6939, titled "Performance of Remedial Response Activities at Uncontrolled Hazardous Waste Site," and called "REM II," is a 4-year contract to provide:

- o Remedial investigations.
- o Engineering feasibility studies.
- o Oversight of remedial planning and implementation projects performed by states and/or responsible parties.
- o Engineering design services.
- o Monitoring.
- o Resident engineering, training, technical services, and program management.
- o Support to EPA.

Figure A-1 provides a simplified logic diagram for the major components associated with the performance of an RI/FS by the REM II team. The initial documents prepared for this assignment are components of the Southern Maryland Wood Treatment Site Work Plan and Project Operations Plan (POP). These documents define the objectives and scope of the RI field activities. The results of



Source: REM II Technical Operations Manual

FIGURE A-1 RI/FS LOGIC DIAGRAM  
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the field activities are reported in the RI, Sections 1 through 4, with the initial remedial alternatives discussed in the FS, Section 6 of this document.

Note that additional field work (i.e., Phase III activities) is required to obtain essential information to adequately finalize response objectives and develop/analyze remedial options. Therefore, this document only addresses site remediation considerations and initial technology screening.

**APPENDIX B**

**REPORT ON DEVELOPMENT AND VALIDATION  
OF THE UV FLUORESCENCE SCREENING METHOD**

**AR301028**

# **PRELIMINARY DRAFT**

**DEVELOPMENT AND VALIDATION  
OF  
A METHOD FOR FIELD SCREENING ANALYSIS  
OF SOIL AND WATER FOR  
POLYNUCLEAR AROMATIC HYDROCARBONS  
FOR  
SUBTASK 5  
(Phase I RI - Initial Support Activities)**

**SOUTHERN MARYLAND WOOD TREATING SITE  
Hollywood, Maryland**

**December 17, 1985**

**Work Assignment No.: 95-3LE8.1  
Document Control No.: 193-R11-RT-CALY-1**

**AR301029**

## 1.0 Introduction

This report describes Subtask 5 of Task 1.0 (Initial Support Activities) of the Work Plan for the Remedial Investigation (RI) at the Southern Maryland Wood Treating (SMWT) site in Hollywood, Maryland. Details of the development and validation of a field screening method for the determination of total polynuclear aromatic hydrocarbon (PAH) concentration in both soils and waters are presented in the following sections of this report.

The purpose of this method development and validation work was to develop a rapid (10-20 minutes), semi-quantitative analytical method for screening analysis of soils samples for total polynuclear aromatic hydrocarbon (PAHs) with a target detection limit in the range 1-10 ug/g. This method was to give a total concentration of PAHs which is comparable to those obtained using conventional analytical methods (e.g., EPA-CLP Protocol and/or 8270). The technical approach described in the following sections focuses on the development of a rapid extraction of PAHs from soils and waters with analysis using UV fluorescence spectrophotometry.

## 2.0 Abstract

A rapid field screening technique for the determination of total Polynuclear Aromatic Hydrocarbons (PAH) in soils and waters was developed and validated for use at the Southern Maryland Wood Treating Site. Initially, a literature search was performed to provide information on alternative extraction and analysis methods, UV fluorescence spectral characteristics of the PAHs of interest, and concentrations of interest. Based on the literature search, development methods were concentrated on the use of UV fluorescence for analysis of PAHs in the soil and water samples.

Three representative PAH compounds -- naphthalene, acenaphthene, and phenanthrene, found in samples from the Southern Maryland Wood Treating Site (ERT sampling, January 1985) -- were selected as target compounds in the Method Development and Method Validation phases of this project. These three compounds were used to spike distilled water and background soil to establish the accuracy and precision of rapid screening techniques for water and soil. Soil and water samples were extracted for analysis by UV fluorescence spectrophotometry.

The fluorescence spectra of seven PAH compounds found in the majority of samples at highest concentrations in samples from the SMWT site in January 1985 were examined, as an initial step towards analysis of soils and water samples. Based on the UV fluorescence spectra of the PAH compounds, wavelength pairs were selected which would most accurately quantify the mixture of PAH compounds present at the SMWT site.

It was concluded that the method developed for field screening water and soil samples from the SMWT site, utilizing UV fluorescence spectrophotometry, is a reliable and accurate means for estimating the total PAH concentration at the SMWT site. A description of the technical approach, summary method accuracy and precision, and a comparison of rapid screening and GC/MS data are presented in the following sections.

### 3.0 Screening Method Development

#### 3.1 Selection of PAH Target Compounds

The three target compounds used for method validation were selected by examining GC/MS data from the ERT sampling event at SMWT in January 1985. These data showed that naphthalene, acenaphthene, and phenanthrene comprised approximately half the total PAH concentration in the soil at that time. An even greater proportion of the total PAH concentration in surface and well water samples was due to the presence of these three compounds.

Naphthalene and acenaphthene contain two aromatic rings, while phenanthrene contains three. These compounds are representative of PAH compounds present at the SMWT site and should closely parallel the behavior of all PAH compounds of interest (i.e., those with from two to six rings).

#### 3.2 Generation of UV Fluorescence Spectra

After selection of the three target PAH compounds, UV fluorescence spectra over a wide concentration range were obtained using standard solutions. The fluorescence data were used to determine sensitivity and generate response curves. Based on sensitivity, the sample size and volume of extraction solvent were determined to meet the required detection limits. Sensitivity was sufficient to use a small sample (1. g of soil or 25. ml of water) for the screening techniques.

Considering site history, the proposed method was designed to achieve a detection limit of 10 ug/L for total PAH concentration in water and 1-10 ug/g in soil.

### 4.0 Method Development - Soil

The major steps in the development of a rapid screening method for total PAH concentration in soils are listed below:

1. Selection of target compounds.
2. Determination of spectral characteristics and UV fluorescence sensitivity range.
3. Selection of an appropriate extraction solvent.
4. Analysis of three sets of duplicate spikes as an initial method development step.
5. Examination of the data from Step 4 to establish the desired method validation range.
6. Analysis of five sets of triplicate spikes to establish method accuracy and precision.

Naphthalene, acenaphthene, and phenanthrene were selected as the target compounds as previously discussed. Excitation and Emission maxima for each target compound were determined from 250 nm - 550 nm.

Because of their similar structures, naphthalene and acenaphthene have similar spectral characteristics and concentrations were determined in spiked samples as total naphthalene/acenaphthene concentrations. The fluorescence spectral information is presented in Table 4-1.

A quantifiable fluorescence response was observed for each analyte from .01 to 1.0 ug/ml concentration in solution. The mass vs. response curve becomes non-linear at the higher concentrations and the most accurate quantification is obtained by working within a concentration range of 0.1 to 1.0 ug/ml.

Three extraction solvents were compared to select the most appropriate solvent for the rapid screening of soils. Hexane, acetonitrile, and toluene all gave quantitative recovery of a 150 ug/g PAH soil spike (50 ug/g of each compound). However, acetonitrile was chosen for the following reasons:

1. Acetonitrile gave rapid dispersion of wet soil into the extraction solvent; neither hexane nor toluene did this.
2. Acetonitrile exhibited the best sensitivity of the three solvents.
3. Toluene is opaque at 250 nm., which is the selected excitation wavelength for phenanthrene.

At this point a preliminary set of duplicate spikes were prepared and analyzed. Each compound was spiked at 0.1 ug/g, 1 ug/g, and 10 ug/g onto SMWT site background soil. Note that this yields a total PAH concentration equal to 0.3 ug/g, 3.0 ug/g, and

30 ug/g. The 0.3 ug/g PAH spike was indistinguishable from background soil levels. A range of 3 ug/g to 300 ug/g total PAH in soil was selected for method validation. These results, expressed as a percentage of recovery of naphthalene/acenaphthene or phenanthrene, are shown in Table 4-2 and Table 4-3 and are corrected for background soil contribution. Recoveries above 100% occur because calibration curves were extrapolated to non-linear response regions, thus giving concentrations which were biased high. This represents a "worst case" performance, and this problem can be remedied by working over a concentration range with a more linear response. The method protocol used for this validation is described below.

RAPID SCREENING OF SOIL FOR TOTAL PAH CONCENTRATION

1. Weigh 1.0 g wet soil into a 40 ml vial.
2. Add 1.0 g anhydrous sodium sulfate.
3. Add 10 ml UV grade acetonitrile.
4. Shake vigorously for 15 seconds.
5. Let sample settle for 1 minute.
6. Filter sample through 0.2 micron teflon filter (with in-line syringe).
7. Calibrate instrument from 0.1 to 1.0 ug/ml for each target compound.
8. Analyze extracts by UV fluorescence, diluting the extract into range as necessary.

Following establishment of method performance, four SMWT site soil samples were analyzed in triplicate and the results compared to those obtained by conventional GC/MS techniques. These samples were prepared and analyzed by GC/MS using procedures described in "Statement of Work for Organics Analysis Multi-Media Multi-Concentration", U.S.EPA Contract Laboratory Program, July 1985. PAH concentrations determined by GC/MS were summed and recorrected for moisture content to give total PAH concentration on a wet weight basis.

UV fluorescence screening data for soils from the SMWT site were obtained using the procedures described above in the method development section. Quantification was performed using a slightly different method, described as follows: A mixture of PAH compounds prevalent at SMWT site was prepared and analyzed using two pairs of compromise wavelengths to calibrate the procedure. This information is most easily depicted in tabular

Table 4-1

UV FLUORESCENCE CHARACTERISTICS OF TARGET COMPOUNDS

<u>COMPOUND</u>	<u>EXCITATION (Ex) and EMISSION (Em) MAXIMA</u>		<u>COMPROMISE WAVELENGTHS USED</u>	
	<u>Ex</u>	<u>Em</u>	<u>Ex</u>	<u>Em</u>
napthalene	275	355	280	340
acenaphthene	280	355	280	340
phenanthrene	250	365	250	365

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Table 4-2  
RECOVERY OF PAHs FROM SOIL VALIDATION SAMPLES

<u>Concentration of Each Analyte ug/g</u>	<u>Total PAH Concentration ug/g</u>	<u>% Recovery Naphthalene</u>	<u>% Recovery Acenaphthene</u>	<u>% Recovery Phenanthrene</u>
1	3	65.5		79.7
1	3	57.2		83.3
1	3	73.9		95.5
5	15	78.9		89.0
5	15	73.9		82.7
5	15	84.2		106.0
10	30	71.1		72.3
10	30	66.8		63.0
10	30	67.8		64.0
50	150	95.1		123.0
50	150	106		144.0
50	150	99.1		122.0
100	300	93.3		93.3
100	300	91.0		94.5
100	300	95.3		94.9

Table 4-3

METHOD PRECISION AND ACCURACY  
FOR TOTAL PAH IN SOIL SAMPLES

Total PAH Concentration (ug/g)	Average Recovery Naphthalene/Acenaphthene	RSD (%)*	Average Recovery (%) Phenanthrene	RSD (%)*
3	65.5	12.7	86.1	9.6
15	79.0	6.5	92.6	13.0
30	68.6	3.3	66.4	7.7
150	100.0	5.5	130.0	9.6
300	93.2	2.3	94.2	0.9

\*Relative Standard Deviation

form (Table 4-4). Note that standard concentration is expressed as the sum of those compounds measured at each wavelength. Benzo(k)fluoranthene has not been observed at high levels at the SMWT site but has been used to provide a typical six-membered ring PAH compound in the standard mix. This mix was prepared in acetonitrile, the same solvent used for extraction.

Serial dilutions of the screening standard mix in Table 4-4 were prepared to give quantifiable response over the component concentration range of 0.005 to 1.0 ug/ml. This gave a range of 0.015 to 3.0 ug/ml for wavelength group 1 (3 components) and 0.020 to 4.0 ug/ml for wavelength group 2 (4 components).

Table 4-5 summarizes GC/MS and UV fluorescence rapid screening data for soil samples from SMWT. The results show that these data from UV fluorescence screening compare well with PAH concentrations measured by GC/MS. Discrepancies between replicates may be due to a lack of homogeneity among soil samples. This is discussed further in the Conclusions section of this report.

## 5.0 Method Development - Water<sup>1</sup>

For rapid screening of water samples to determine total PAH concentration, hexane was selected as the extraction solvent for sample preparation using micro-extraction procedures. The procedure used for sample extraction is outlined below:

1. Mix sample. Add 25 ml of sample to a 40 ml teflon capped vial.
2. Add 5 ml UV grade hexane. Shake for 1 minute.
3. Let sample settle for 5 minutes.
4. Analyze hexane extract by UV fluorescence.

This screening method was applied to three pairs of duplicates for method development. A total PAH concentration range from 9 to 1800 ug/l was chosen for method validation. Note that this equates to a 3 to 600 ug/l range for each target compound. Method precision and accuracy data are presented in Table 5-1 and 5-2.

Following determination of recoveries, the UV fluorescence screening method was used to determine total PAH concentration in the SMWT site water sample, SW1. Results were compared to those obtained by GC/MS Analysis. As in the soil sample quantification, the mixture shown in Table 4-4 was used for calibration. The screening results are shown in Table 5-3.

Table 4-4

## COMPOSITION OF TOTAL PAH SCREENING STANDARD MI

<u>Compound Concentration</u>	<u>Group No.</u>	<u>No. of Rings</u>	<u>Stock Concentration in ug/ml</u>	<u>Compromise Wavelength Pairs</u>	<u>Wavelength Pair Group Concentrat</u>
napthalene	1	2	100	280/340	
acenaphthene	1	3	100	280/340	300 ug/l
fluorene	1	3	100	280/340	
phenanthrene	2	3	100	250/400	
fluoranthene	2	4	100	250/400	400 ug/l
pyrene	2	4	100	250/400	
benzo(k)fluoranthene	2	6	100	250/400	

Table 4-5

COMPARISON OF UV FLUORESCENCE RAPID SCREENING  
AND GC/MS DATA FOR  
TOTAL PAH CONCENTRATION IN SOIL SAMPLES FROM SMWT SITE

Sample I.D.	Location	Technique	Total PAH Concentration (ug/g)			
			#1	#2	#3	Avg.
SS 1	Land Treatment	UV Fluorescence	16.4	6.5	1.4	8.1
SS 1	Land Treatment	GC/MS	7.0	---	---	7.0
SS 2	Process Area	UV Fluorescence	21.6	45.5	60.8	42.6
SS 2	Process Area	GC/MS	120.	---	---	120
SS 3	Pond	UV Fluorescence	104000	76300	85700	88500
SS 3	Pond	GC/MS	19600	---	---	19600
SS 4	Background	UV Fluorescence	4.1	4.2	3.6	4.0
SS 4	Background	GC/MS	4.1	---	---	4.1

Table 5-1

RECOVERY OF PAHs FROM WATER VALIDATION SAMPLES

<u>Concentration of Each Analyte ug/l</u>	<u>Total PAH Concentration ug/l</u>	<u>% Recovery Naphthalene/ Acenaphthene</u>	<u>% Recovery Phenanthrene</u>
3	9	82.0	92.0
3	9	80.0	93.1
30	90	97.5	111.0
30	90	95.9	110.0
600	1800	96.6	93.9
600	1800	91.4	98.8

Table 5-2

METHOD PRECISION AND ACCURACY  
FOR TOTAL PAH IN WATER SAMPLES

Total PAH Concentrations (ug/l)	Average Recovery (%) Naphthalene/ Acenaphthene	RSD (%)*	Average Recovery Phenanthrene	RSD (%)*
9	81.0	1.7	92.6	0.8
90	96.7	1.2	111.0	0.6
1800	94.0	3.9	96.4	3.6

\*Relative Standard Deviation

Table 5-3

COMPARISON OF UV FLUORESCENCE RAPID SCREENING  
AND GC/MS DATA FOR TOTAL PAH CONCENTRATION IN WATER SAMPLES

SAMPLE <u>I.D.</u>	LOCATION <u>AVERAGE</u>	TECHNIQUE	TOTAL PAH ug/l			AVERAGE PAH CONCENTRATION (ug/l)
			#1	#2	#3	
SW 1	Surface Water	UV	3.1	4.4	6.3	4.6
SW 1	Surface Water	GC/MS	0.7	---	---	0.7

It should be noted that GC/MS results may be somewhat low due to low recovery of target compounds through sample extraction and concentration. The surrogate recovery data from the GC/MS results shows that 2-fluorobiphenyl, the BNA surrogate most similar to PAH compounds, was recovered at 68%. However, average recoveries for the PAHs for water samples were observed at values above 80% (Table 5-1).

#### 6.0 Conclusions and Recommendations

It is concluded that the rapid screening methods for determination of total PAH concentration in water and soil samples utilizing UV fluorescence spectrophotometry provide an order of magnitude of total PAH concentration, based on comparison with data obtained by conventional GC/MS techniques. This conclusion is supported by the data shown in Tables 4-5 and 5-3, as well as the observations by the sample analyst.

Throughout the method development it was observed that the homogeneity of the soil samples appeared to vary greatly. This can create problems with data inconsistency because the sample sizes for extraction and UV fluorescence analysis are very small and variations in sample homogeneity will make it difficult to obtain a representative 1g sample. One possible solution to the problem of obtaining a representative sample is to extract each soil sample in triplicate, combine the three extracts, and assay the composite extract to represent the total PAH concentration for the original site sample.

Additionally, the sporadic appearance of water droplets in the hexane extract of water samples presented problems during the method validation for water. This is not reflected in the data as it was recognized at the time of occurrence, and fresh dilutions were made, taking care to avoid water droplets in the sample cuvette. This problem can be remedied by drying the extract using anhydrous sodium sulfate.

With these modifications, these methods will serve as a reliable means of estimating total PAH concentration in both water and soil samples from the Southern Maryland Wood Treating site.

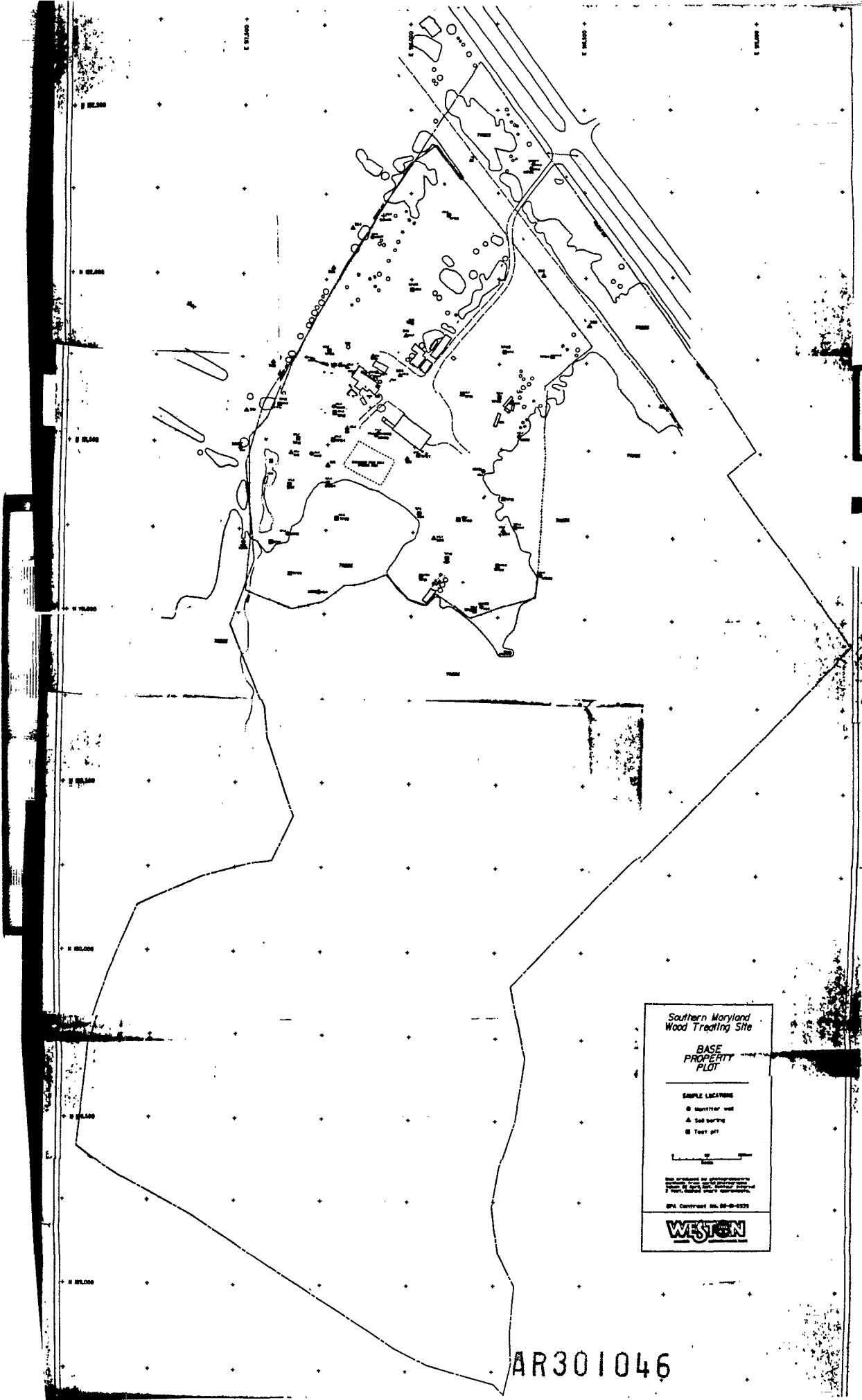
It must be stressed that the screening method is site specific, and should not be applied as described to any other site investigation without suitable laboratory modification and validation.

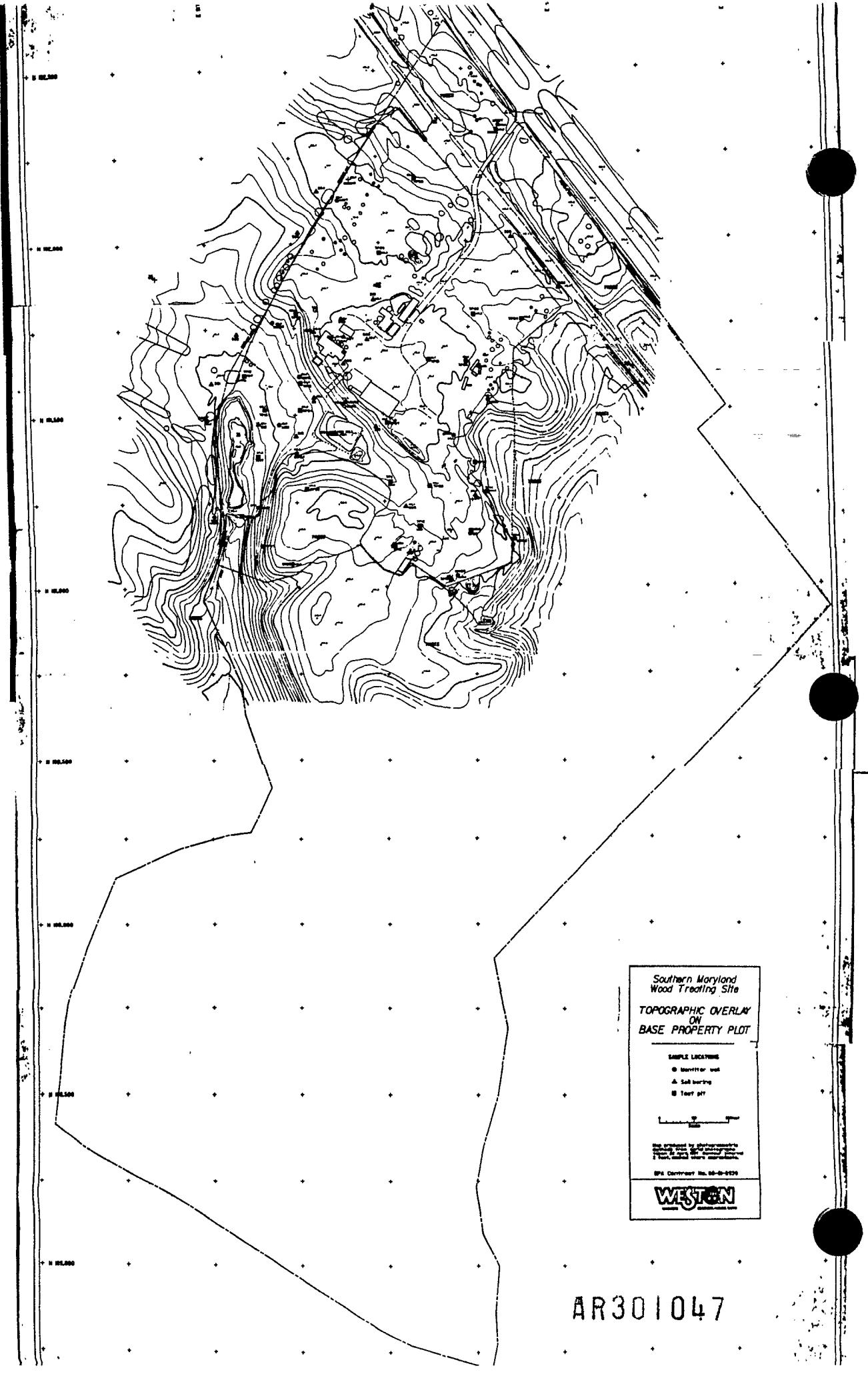
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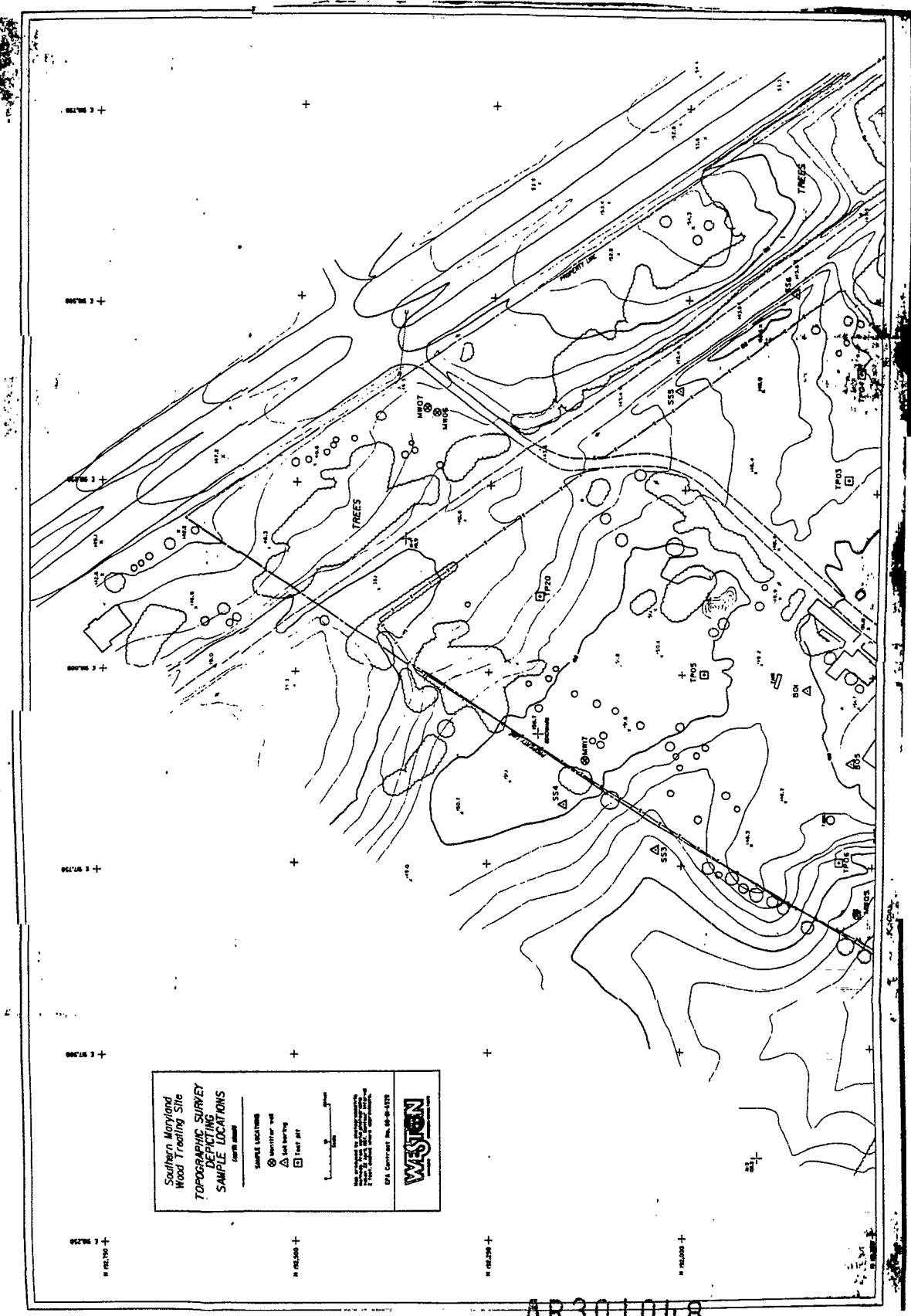
1. Rhoades, John W. and Nulton, Carter P., "Journal of Environmental Science and Health", A15(5), pp. 467-484, 1980.

**APPENDIX C**  
**MAP SHEETS**

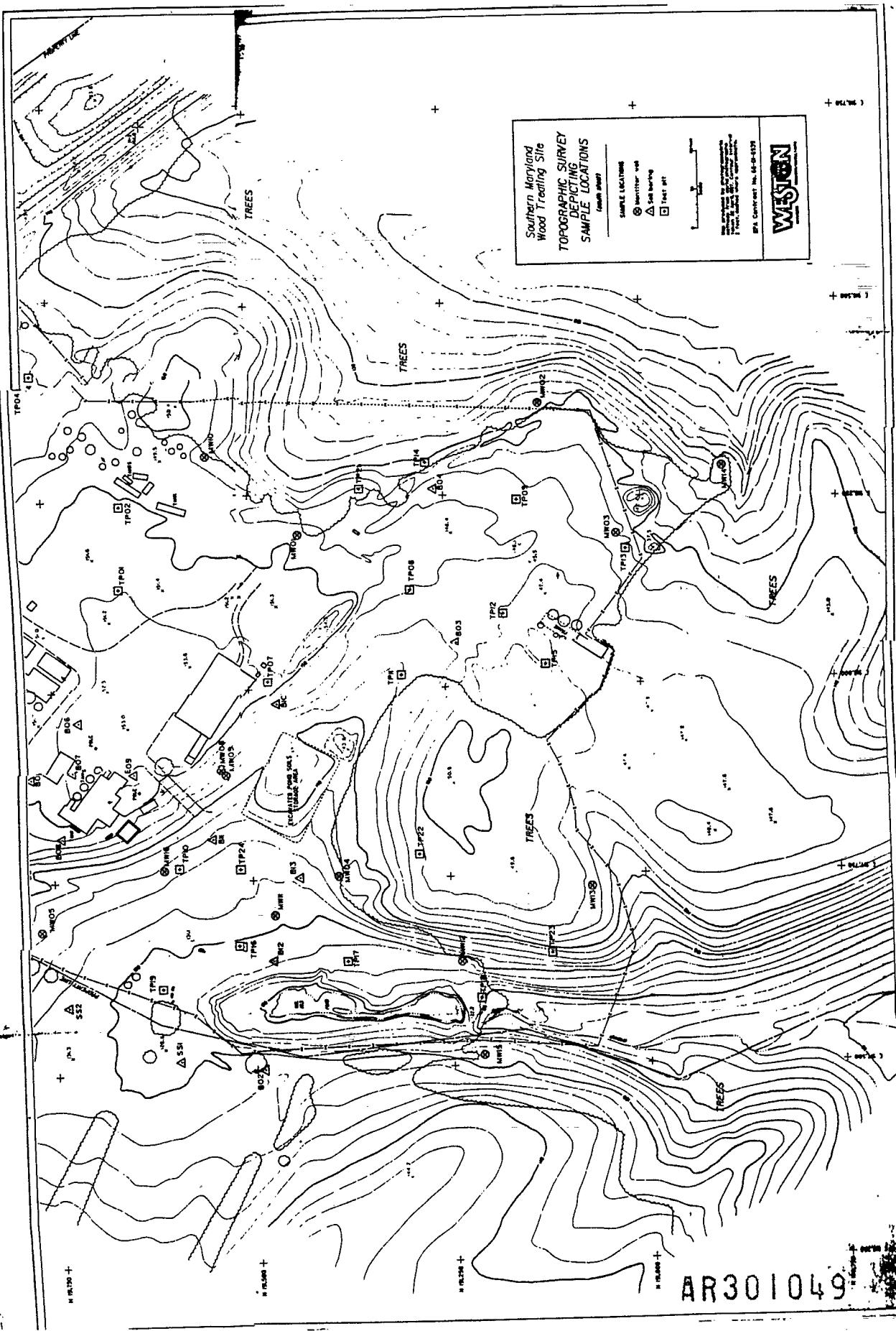
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**APPENDIX D**  
**SLUG TEST DATA AND ANALYSIS**

**AR301050**

SOUTHERN MARYLAND WOOD TREATING SITE-WELL #1B

TIME - MINUTES

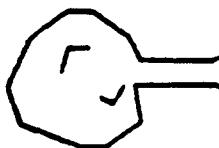
0 0 . 133 0 . 266 0 . 399 0 . 532 0 . 665 0 . 798 0 . 931 1 . 064 1 . 197 1 . 33

0 . 01  
0 . 1

$$\text{CONDUCTIVITY} = 8.689E-003 \text{ FEET/MINUTE}$$
$$\text{TRANSMISSIVITY} = 8.402E-002 \text{ FEET}^2/\text{MINUTE}$$

Y FEET

1000  
100  
10  
1



SOUTHERN MARYLAND WOOD TREATING SITE-WELL #1B

(DIMENSIONS IN FEET)

CASING DIAMETER = 0.25

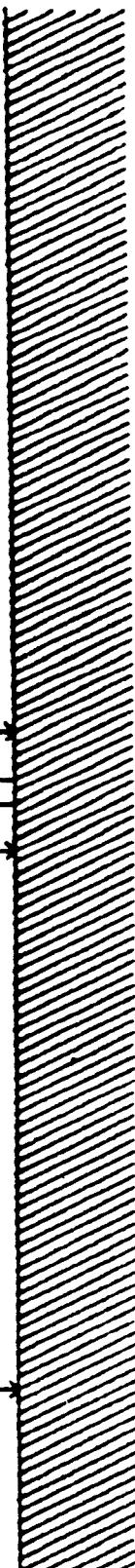
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EFFECTIVE WELL DIAMETER = 0.5

D = 9.67

H = 9.67

SCREEN LENGTH = 5

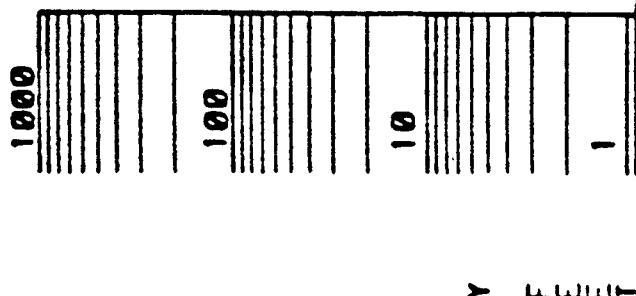


SOUTHERN MARYLAND WOOD TREATING SITE-WELL #18

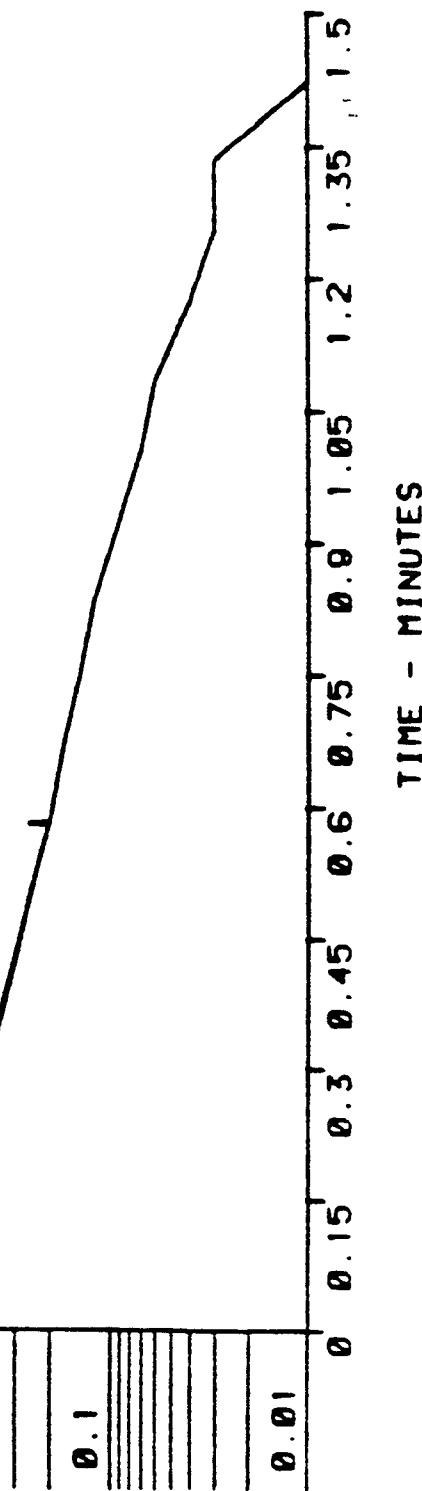
V. READINGS

TIME (MINUTES)

0.86	0.08
0.73	0.17
0.59	0.24
0.49	0.29
0.34	0.42
0.29	0.47
0.24	0.58
0.2	0.67
0.17	0.75
0.14	0.83
0.11	0.92
0.08	1.08
0.07	1.17
0.05	1.25
0.05	1.33



CONDUCTIVITY =  $1.060E-002$  FEET/MINUTE  
TRANSMISSIVITY =  $1.025E-001$  FEET $^2$ /MINUTE



SOUTHERN MARYLAND WOOD TREATING SITE - WELL #1



SOUTHERN MARYLAND WOOD TREATING SITE-WELL #1

(DIMENSIONS IN FEET)

CASING DIAMETER = 0.25

WELL SLIMNESS FACTOR = 20.00

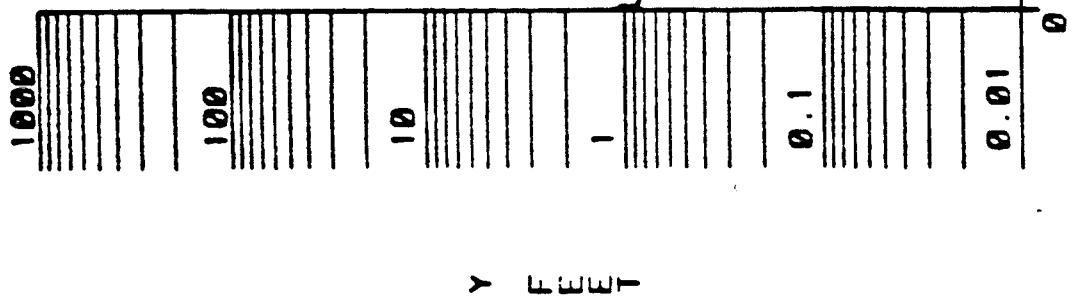
EFFECTIVE WELL DIAMETER = 0.5

D = 9.67      H = 9.67

SCREEN LENGTH = 5

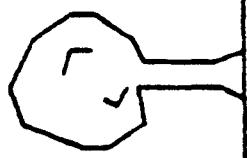
SOUTHERN MARYLAND WOOD TREATING SITE - WELL #1

	'Y' READINGS	TIME (MINUTES)
1	0.74	0.08
2	0.59	0.17
3	0.45	0.25
4	0.38	0.33
5	0.3	0.42
6	0.25	0.5
7	0.2	0.58
8	0.17	0.67
9	0.14	0.75
10	0.12	0.83
11	0.09	0.92
12	0.07	-
13	0.06	1.08
14	0.04	1.17
15	0.03	1.25
16	0.03	1.33
17	0.01	1.42
18	0.01	1.5
19	0	1.58



CONDUCTIVITY =  $3.652E-003$  FEET/MINUTE  
 TRANSMISSIVITY =  $4.321E-002$  FEET<sup>2</sup>/MINUTE

SOUTHERN MARYLAND WOOD TREATING SITE - WELL #3A



SOUTHERN MARYLAND WOOD TREATING SITE-WELL #3A

(DIMENSIONS IN FEET)

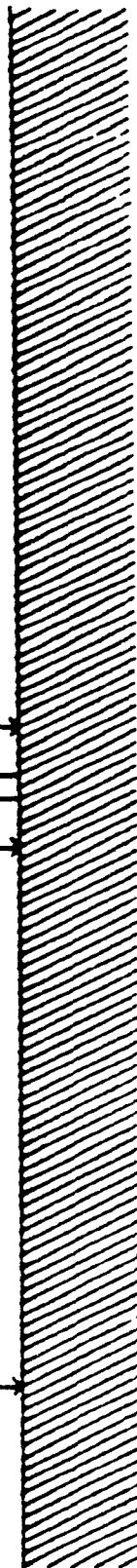
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WELL SLIMNESS FACTOR = 20.00

EFFECTIVE WELL DIAMETER = 0.5

D = 11.83      H = 11.83

SCREEN LENGTH = 5



SOUTHERN MARYLAND WOOD TREATING SITE-WELL #3A

TIME (MINUTES)	Y. READINGS
0.01	0.86
0.09	0.78
0.17	0.73
0.25	0.67
0.34	0.63
0.42	0.58
0.50	0.54
0.59	0.51
0.67	0.47
0.75	0.44
0.84	0.39
0.92	0.38
1.00	0.35
1.17	0.31
1.25	0.28
1.42	0.26
1.50	0.25
1.67	0.21
1.75	0.19
1.84	0.18
1.92	0.16
2.00	0.15
2.17	0.13
2.25	0.12
2.42	0.11
2.50	0.08

32	2.59
33	2.67
34	2.75
35	2.84
36	2.92
37	3.00
38	3.06
39	3.06
40	3.05
41	3.05
42	3.05
43	3.03
44	3.03
45	3.03
46	3.02
47	3.02
48	3.02
	3.25
	3.34
	3.42
	3.50
	3.58
	3.67
	3.75
	3.84
	3.92
	0.00
	0.00
	0.00
	0.00
	0.00
	0.00
	0.00
	0.00

SOUTHERN MARYLAND WOOD TREATING SITE-WELL #3

TIME - MINUTES

0 0.485 0.971.455 1.942.425 2.013.395 3.884.365 4.85

$$\text{CONDUTIVITY} = 3.600E-003 \text{ FEET/MINUTE}$$
$$\text{TRANSMISSIVITY} = 4.250E-002 \text{ FEET}^2/\text{MINUTE}$$

FEET





SOUTHERN MARYLAND WOOD TREATING SITE-WELL #3

(DIMENSIONS IN FEET)

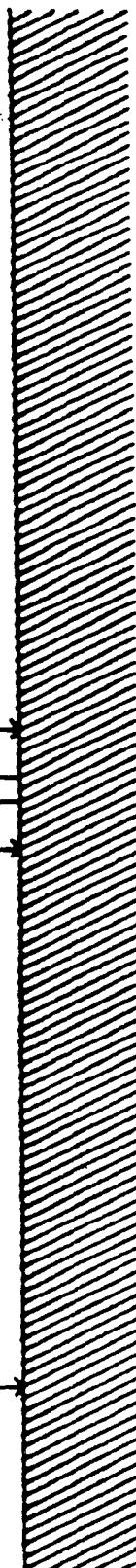
CASING DIAMETER = 0.25

WELL SLIMNESS FACTOR = 20.00

EFFECTIVE WELL DIAMETER = 0.5

D = 11.83                    H = 11.83

SCREEN LENGTH = 5



SOUTHERN MARYLAND WOOD TREATING SITE-VELL #3

	Y. READINGS	TIME (MINUTES)
1	0.91	0.00
2	0.84	0.17
3	0.77	0.26
4	0.71	0.35
5	0.66	0.43
6	0.61	0.51
7	0.56	0.6
8	0.53	0.68
9	0.49	0.76
10	0.46	0.85
11	0.43	0.93
12	0.4	1.01
13	0.38	1.18
14	0.35	1.26
15	0.32	1.35
16	0.3	1.43
17	0.27	1.51
18	0.26	1.6
19	0.25	1.68
20	0.23	1.76
21	0.22	1.85
22	0.2	1.93
23	0.19	2.01
24	0.17	2.1
25	0.16	2.18
26	0.14	2.26
27	0.13	2.35
28	0.13	2.43
29	0.12	2.51
30	0.12	2.6
31	-	-

2.68  
2.76  
2.85  
2.93  
3.01  
3.18  
3.26  
3.35  
3.43  
3.51  
3.6  
3.68  
3.76  
3.85  
3.93  
4.01  
4.1  
4.18  
4.26  
4.35  
4.43  
4.51  
4.6  
4.68  
4.76  
4.85

32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58

SOUTHERN MARYLAND WOOD TREATING SITE-WELL #4

TIME - MINUTES

0 0.475 0.95 1.425 1.9 2.375 2.85 3.325 3.8 4.275 4.75

0.1

CONDUCTIVITY = 1.360E-003 FEET/MINUTE  
TRANSMISSIVITY = 3.253E-002 FEET<sup>1/2</sup>/MINUTE

Y FEET

10000  
1000  
100  
10  
1



SOUTHERN MARYLAND WOOD TREATING SITE-WELL #4

(DIMENSIONS IN FEET)

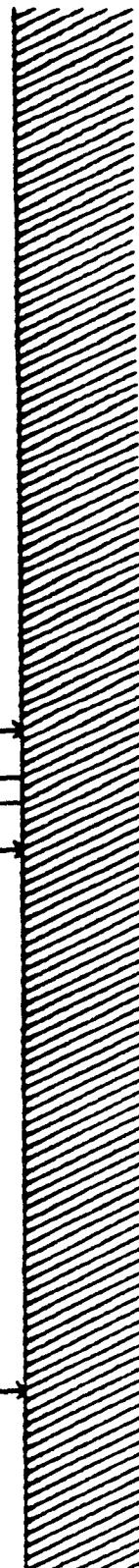
CASING DIAMETER = 0.25

WELL SLIMNESS FACTOR = 20.00

EFFECTIVE WELL DIAMETER = 0.5

D = 23.91      H = 23.91

SCREEN LENGTH = 5



SOUTHERN MARYLAND WOOD TREATING SITE - WELL #4

'Y' READINGS	TIME (MINUTES)
0.67	0.08
0.65	0.17
0.64	0.25
0.61	0.33
0.6	0.42
0.58	0.5
0.57	0.58
0.55	0.67
0.54	0.75
0.54	0.83
0.52	0.92
0.51	1.08
0.5	1.17
0.48	1.25
0.47	1.33
0.45	1.42
0.44	1.5
0.44	1.58
0.42	1.67
0.41	1.75
0.41	1.83
0.39	1.92
0.38	2.08
0.38	2.17
0.37	2.25
0.35	2.33
0.35	2.42
0.34	2.5
0.34	2.58
0.32	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	

32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
0.32	0.31	0.29	0.29	0.29	0.28	0.28	0.26	0.26	0.25	0.25	0.24	0.24	0.24	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.19	0.18	0.18	0.18	
2.67	2.75	2.83	2.82	3.08	3.08	3.17	3.25	3.33	3.42	3.5	3.59	3.67	3.75	3.83	3.82	3.92	4.08	4.17	4.25	4.33	4.42	4.5	4.58	4.67	4.75

**APPENDIX E**

**DRILLING AND TEST PIT LOGS  
AND WELL CONSTRUCTION SUMMARIES**

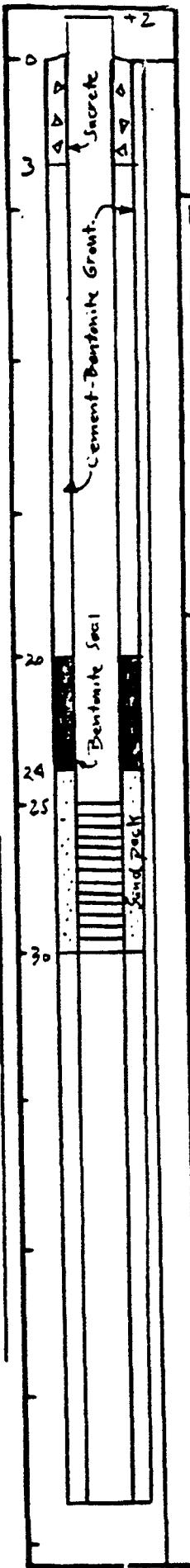
AR301069

Well mw-6

## **Well Construction Summary**

Location or Coords: N 192,324.24  
E 918,346.15

Elevation. Ground Level. 144.5 ft MSL  
Top of Casing. 146.94 ft MSL



## **Drilling Summary:**

Total Depth Boring to 37.0', well @ 30.0'  
Borehole Diameter ~ 11"

Driller Sam

Fig. Mobil D-6

Bil(s) 3 1/2" ID x 6 1/8" OD

Drilling Fluid None

## Surface Casing

## **Well Design:**

Basis: Geologic Log  Geophysical Log

**Casing String(s): C = Casing      S = Screen**

Casing C1 4" ID Pre Riser, Sch 40  
flush joint

C2

Screen: S1 4" ID PVC, Sch 40, #10  
continuous wound

S

Centralizers - None

Filter Material Well sorted coarse  
Sand

Cement Portland, type I

Other Bentonite - Super Gel X  
Bentonite Pellets -  $\frac{1}{2}$ " x  
Steel Protector - 6" x

## **Construction Time Log:**

## **Well Development:**

Developed mwh via submersible pump  
(Gould)

**Comments:**

(Well water fairly clear, no sediments noted) in well.

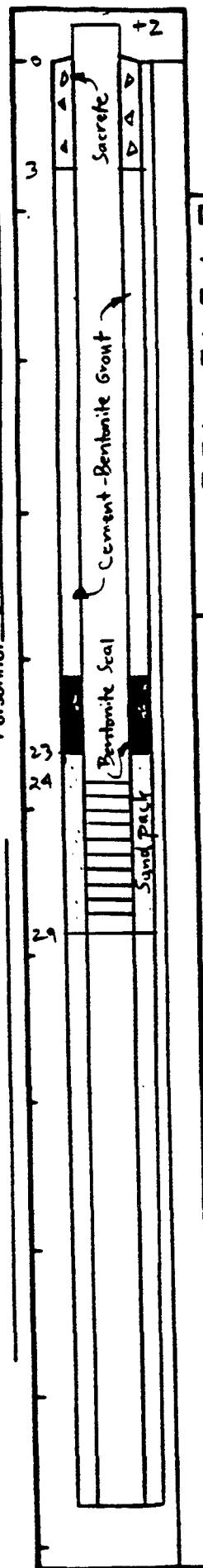


Well MW-8

# Well Construction Summary

Location or Coords: N 191, 536.84  
F 917, 894.33

Elevation. Ground Level 144.5 ft MSL  
Top of Casino 146.82 ft MSL



## **Drilling Summary:**

Total Depth Borehole to 305', Well @ 29.<sup>0</sup>  
Borehole Diameter ~11"

Driller Sam, Tim

Rig Mobil D-60  
Bil(s)  $3\frac{1}{4}'' \text{ ID} \times 6\frac{5}{8}'' \text{ OD}$   
 $8'' \text{ ID} \times 11'' \text{ OD}$

Drilling Fluid None

### **Surface Casing**

## **Well Design:**

Basis: Geologic Log  Geophysical Log

Casing String(s): C = Casing S = Screen

Casing C, 4" ID PVC Riser, Sch. 40, flush joint

C2

Screen: S1 4" ID PVC, Sch 40, #10  
continuous weld

S2

Centralizers None

Filter Material Well Sorted coarse sand

Cement Portland, type I

Other Bentonite - Super Gel x  
Bentonite Pellets -  $\frac{1}{2}$ " Ø  
Steel Protector - 6" Ø x 5'

## **Construction Time Log:**

## **Well Development:**

Developed mw-8 via stainless steel  
bailey

**Comments:**

Well water appears contaminated,  
majority of silt removed from  
formation. No sediments noted in  
well.

AR301072

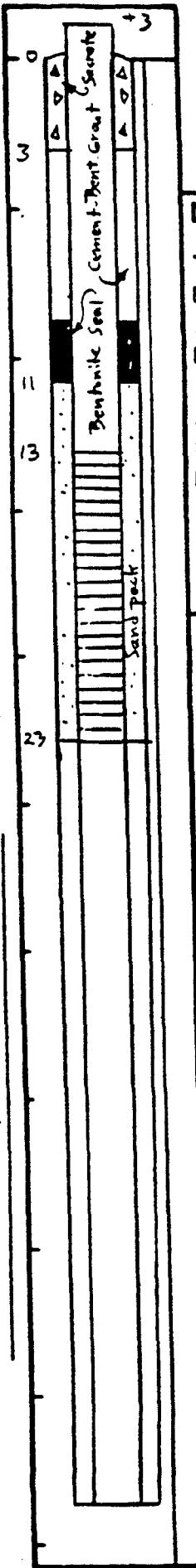
# WESTERN

Well\_mw-9

## **Well Construction Summary**

Location or Coords: N 191, 530.79  
E 917, 887.47

Elevation Ground Level 143.0 ft  
Top of Casing 145.23 ft MSL



## **Drilling Summary:**

Total Depth Bore to 29.0', Well @ 23.0'  
Borehole Diameter ~ 11"

Driller Tim Jackson

BIG MOBIL D-6.

Bill(s) 34 " 10 x 6 1/8" 00  
8" 10 x 11" 00

**Drilling Fluid Name**

### Surface Casing.

## **Well Design:**

Basis: Geologic Log  Geophysical Log

Casing String(s): C = Casing S = Screen

Casing C1 4" ID PVC Riser, Sch 40,  
flush joint

C2

Screen: S1 4" ID PVC, Sch 40, #10  
Continuous wound

63

Centralizers None

Finer Material Well Sorted Coarse sand.

Cement Portland, Type I

Other: Bentonite - Super Gel X  
Granulated Bentonite (slurry)  
Steel Protector - 6" x 5'

## **Construction Time Log:**

## **Well Development:**

Development of mw-q done by  
use of stainless steel baiten

**Comments:**

Well water appeared fairly clear, & no sediments were noted) in the well.

AR301073

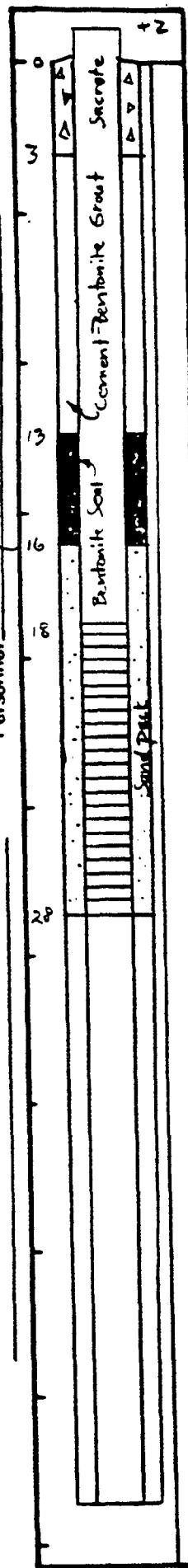
**WEST**  
EXPOSÉS  
COMICS

Well MW-10

## **Well Construction Summary**

Location or Coords: N 191, 537.97  
E 918, 300.29

Elevation: Ground Level 147.4 ft MSL  
Top of Casing 149.23 ft MSL



## **Drilling Summary:**

Total Depth Boring to 300' Well Q 28.0'  
Borehole Diameter ~11"

Driller Tim Jackson

BIG MOBIL D-60

Bill(s) 3 1/4" ID x 6 5/8" OD  
8" ID x 11" OD

Drilling Fluid None

### Surface Casing.

#### **| Well Design:**

Basis: Geologic Log ✓ Geophysical Log  
Casing String(s): C = Casing S = Screen

Casing C1 4" SB PVC Riser, Sch 40,  
Flush joint

C2

Screen: S1 4" ID PVC, Sch 40, #10  
Continuous wound

S2-

Centralizers None

Filter Material well Sorted coarse sand

Cement Portland Type I

Other Pentonite - Super Gel x  
Granulated Bentonite (slurry)  
Steel Protector - 6" x 5"

## **Construction Time Log:**

### **Well Development:**

## Development of MW-10 via PVR brazier.

**Comments:**

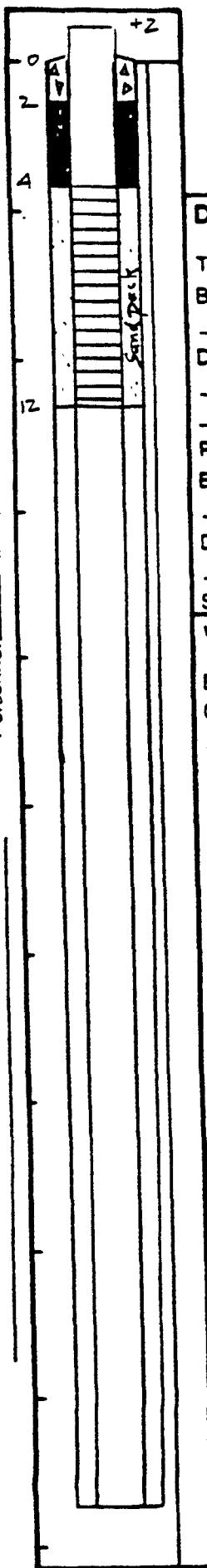
Well water appeared reasonably clear of sediment.  
No sediment noted in well.

Well MW-11

# Well Construction Summary

Location or Coords: N 191, 473.47  
E 917, 703.61

Elevation, Ground Level 131.0 ft MSL  
Top of Casing 131.79 ft MSL



Location Hollywood, MD.  
Personnel Brian Allen - Julie Vank

Project Southern Maryland Wood Treatment

## Drilling Summary:

Total Depth 120'  
Borehole Diameter ~11"

Driller Tim Jackson

Rig Mobil D-60  
Bit(s) 3 1/2" ID x 6 5/8" OD &  
8" ID x 11" OD

Drilling Fluid None

Surface Casing

## Well Design:

Basis: Geologic Log ✓ Geophysical Log

Casing String(s): C=Casing S=Screen

4'	-	12'	S	-	-
4'	-	+2'	C	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

Casing C1 4" ID PVC Thread, Sch 40  
Flush joint

C2

Screen. S1 4" ID PVC, Sch 40, #10  
Continuous Wound

S2

Centralizers None

Filter Material Well Sorted coarse sand

Cement Portland, Type I

Other Bentonite - Super Gel x

Bentonite Pellets - 1" x

Steel Protector - 6" x 5'

## Construction Time Log:

Task	Start		Finish	
	Date	Time	Date	Time
Drilling				
HSA	6/29	1115	6/29	1500
HSA	6/30	0700	6/30	0745
Well Const	6/30	0745	6/30	1015
Geophys Logging				
Casing				
Filter Placement	6/30	0745	6/30	1015
Cementing	7/1	0730	7/1	1100
Development.	7/22	-	7/22	-
Other				

## Well Development:

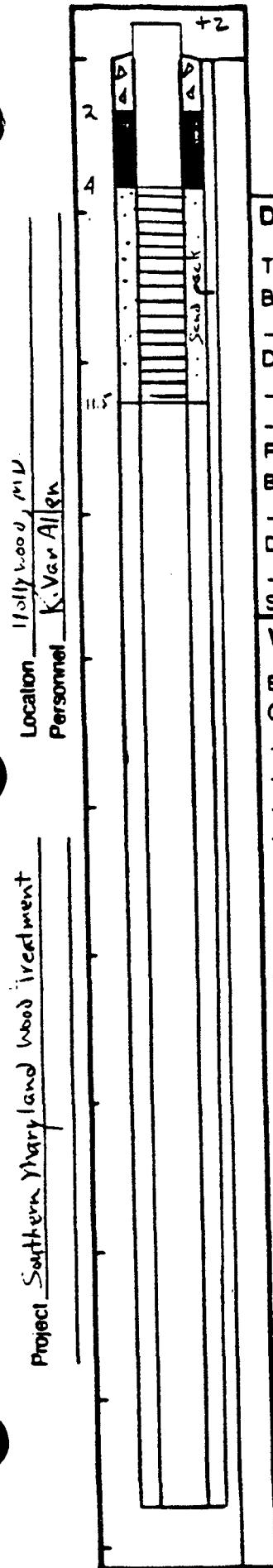
Development of mw-11 done by  
PVC bailer

## Comments:

Well water was contaminated but  
was relatively clear of sediments

AR301075

**WESTON**  
www.weston.com



Well mW-12

## **Well Construction Summary**

Location or Coords: N 191, 237.18  
E 917, 639.39

Elevation Ground Level 127.2 MSL  
Top of Casing 128.83 ft MSL

## **Drilling Summary:**

Total Depth Boring to 12.0' Well @ 11.5'  
Borehole Diameter ~ 11"

Driller Tim Jackson

Rig Mobil D-60  
Bill(s) 3 1/4" ID x 6 5/8" OD  $\frac{1}{4}$ "  
8" ID x 11" OD

Drilling Fluid Nos.

### Surface Casing

## **Well Design:**

Basis: Geologic Log  Geophysical Log

**Casing String(s): C = Casing S = Screen**

Casing C1 4" ID PVC Riser, sch 40  
flush joint

C2.

Screen: S1 1" ID PVC, Sch 40, #10  
Continuous wound

52

Centralizers None

Filter Material well sorted coarse sand

Cement Portland, type I

Other Bentonite - Super Gel x  
(Granulated) Bentonite (slurry)  
Steel Protector - 6" x 5"

### **Construction Time Log:**

## **Well Development:**

Development on MW-12 done by  
stainless steel brazier

**Comments:**

Well water relatively free of sediments, no sediment noted in well.

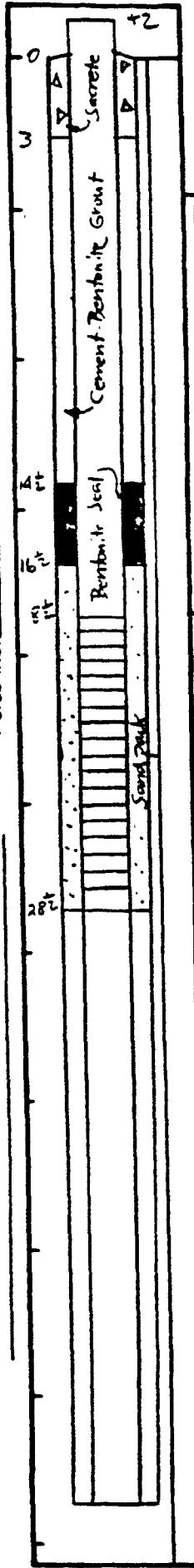
Well MW-13

## **Well Construction Summary**

Location or Coords: N 191, 068.41  
E 917, 733.27

Elevation, Ground Level 145.0 ft

Top of Casing 146.97 ft MSL



## **Drilling Summary:**

Total Depth Boring @ 31.5', Well @ 28.5'  
Borehole Diameter ~11"

Driller Tim Jackson

Rig Mobil D-60

$$B1(s) \frac{3}{4} ID \times 6^{5/8} OD$$

Drilling Fluid bar e

### Surface Casing.

### **Well Design:**

Basis: Geologic Log  Geophysical Log

**Casing String(s): C = Casing S = Screen**

Casing C, 4" ID PVC Riser, Sch 40,  
flush joint

C2.

Screen: S1 4" ID PVC, Sch 40, #10  
Continuous wound

S2

## Centralizers Name

Filter Material well sorted coarse sand

Cement Portland, type I

Other Bentonite Super Gel x  
Steel Protector - 6" x 5'  
Granulated Bentonite (slurry)

## **Construction Time Log:**

## **Well Development:**

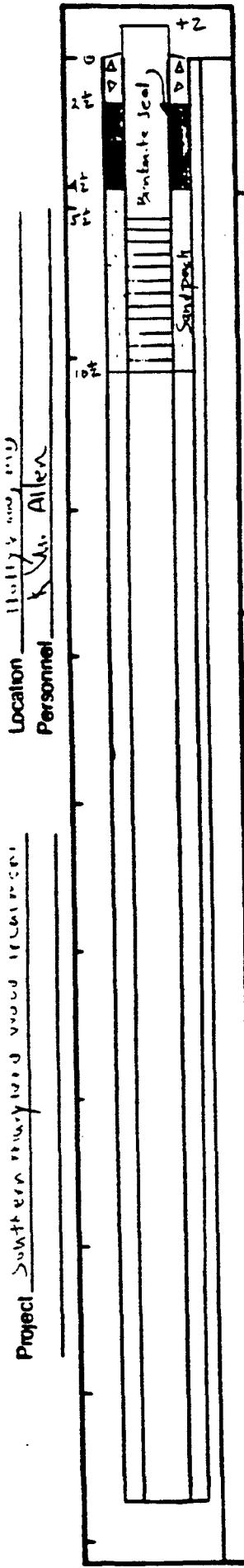
Developed via stainless steel  
baiter

**Comments:**

Well water was reasonably clear of sediment after development.

AR301077

# WESTERN



Well m w - 14

# Well Construction Summary

**Location or Coords:** \_\_\_\_\_

Elevation Ground Level 131.1 ft MSL  
Top of Casing 132.74 ft MSL

## **Drilling Summary:**

Total Depth Boring to 135', Well @ 105'  
Borehole Diameter ~11"

Driller Tim Jackson

Fig. Mobil D-60

Bil(s)  $\frac{3}{4} \times 10 \times 6^{5/8}$ " OD &  
 $8"$  ID x 11" OD

Drilling Fluid None

## Surface Casing

## **Well Design:**

Basis: Geologic Log  Geophysical Log   
Casing String(s): C = Casing S = Screen

$$\underline{5.5'} = \underline{10.5'} \quad \underline{\underline{5}} \quad | \quad \underline{\underline{\quad}} = \underline{\underline{\quad}}$$

Casing C, 4" ID PVC Teaser, Sch 40,  
flush joint

C2 \_\_\_\_\_

Screen: S1 4" ID PVC, Sch 40, #10  
Continuous band

52

Centralizers Name

Finer Material Well sorted coarse sand

Cement: Portland type I

Other Bentonite - Super Gel X  
Bentonite Pellets -  $\frac{1}{2}$ " Ø  
Steel Protector - 6" Ø x 5'

## **Construction Time Log:**

## **Well Development:**

Developed mirror using PVC barrier

**Comments:**

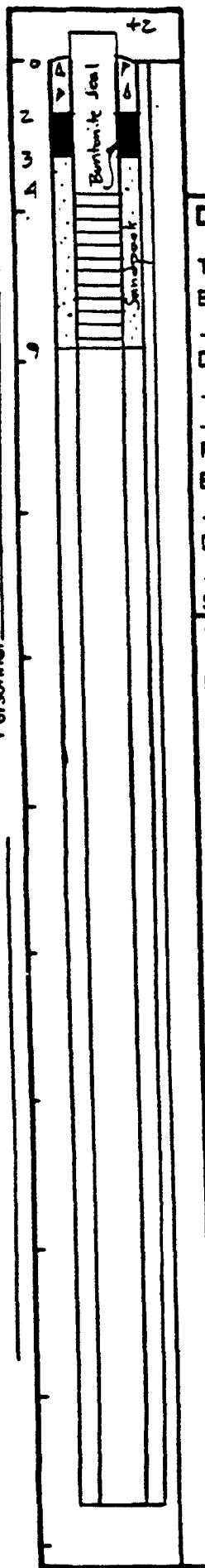
well had some sediment at bottom of screen, but were removed from boiling. Water reasonably clear of sediments.

~~AR3078~~

# WESTERN

Well MW-15

# Well Construction Summary



Location Hollywood, MD.  
Personnel K. Van Alter

Project Southern Maryland Wastewater Treatment

Location or Coords: N 191, 211.60  
E 917, 513.37

Elevation: Ground Level 129.2 ft MSL  
Top of Casing 131.78 ft MSL

## Drilling Summary:

Total Depth Boring to 120', well @ 90'  
Borehole Diameter ~11"

Driller Tim Jackson

Rig Mobil 7-60  
Bit(s) 3 1/2" ID x 6 5/8" OD &  
8" ID x 11" OD

Drilling Fluid None

Surface Casing

## Well Design:

Basis: Geologic Log  Geophysical Log

Casing String(s): C = Casing S = Screen

4'	-	9'	S	-	-
4'	-	+2	C	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

Casing C1 4" ID PVC Riser, Sch 40,  
flush joint

C2

Screen: S1 4" ID PVC, Sch. 40, #10  
continuous wound

S2

Centralizers None

Filter Material well sorted coarse sand

Cement Portland, type I

Other Bentonite - Super Gel x  
Bentonite Pellets - 1" Ø  
Steel Protector - 6" Ø x 5'

## Construction Time Log:

Task	Start		Finish	
	Date	Time	Date	Time
Drilling				
HSA	7/8	0800	7/8	1115
Well const	7/8	-	7/9	-
Geophys Logging				
Casing.				
Fitter Placement	7/8	1115	7/8	1145
Cementing.	7/9	0800	7/9	0130
Development:	7/22	-	7/23	-
Other				

## Well Development:

Developed mw-15 w/ pre bailed & stainless steel bailer

## Comments:

Recovery is slow, & was very silty. Sediments in the screen when development began, but was removed using rig rods by jetting method. Displaced sediments from well by clear water. Bailed for 1 hr afterwards, recharging a little quicker yet with slow. Water reasonably clear & sediments noted in screen.

AR301079

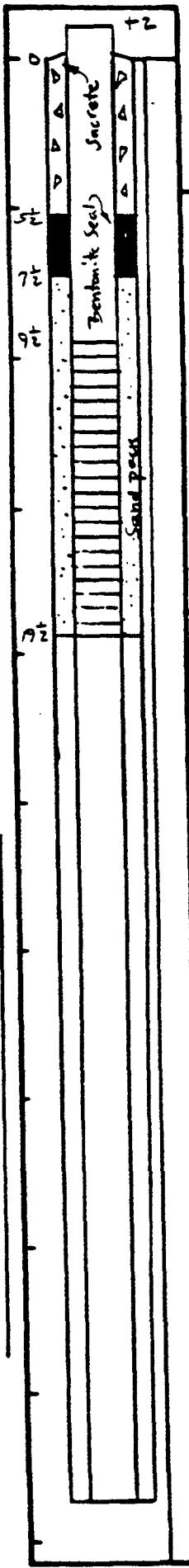
**WESTON**  
CONSTRUCTION

Well mw-16

# Well Construction Summary

Location or Coords: N 191,610.76  
E 917,764.33Elevation: Ground Level 135.8 ft MSL  
Top of Casing 136.00 ft MSLLocation Hollywood, MD  
Personnel K. VandAllen

Project Southern Maryland Well Treatment

**Drilling Summary:**Total Depth Boring to 215', Well is 195'  
Borehole Diameter ~11"

Driller Tim Jackson

Rig Mobil D-60

Bit(s) 3 1/2" ID x 6 5/8" OD  
8" ID x 11" OD

Drilling Fluid None

Surface Casing

**Well Design:**

Basis: Geologic Log ✓ Geophysical Log \_\_\_\_\_

Casing String(s): C = Casing S = Screen

9.5'	-	19.5'	S	-	-	-
9.5'	-	2'	C	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Casing: C1 4" ID PVC Riser, Sch. 40,  
flush joint

C2 \_\_\_\_\_

Screen: S1 4" ID PVC, Sch. 40, #10  
Continuous bound

S2 \_\_\_\_\_

Centralizers None

Filter Material Well Sorted coarse  
Sand

Cement Portland, type I

Other Bentonite - Super Gel x  
Bentonite Pellets - 1/2" x  
Steel Protector - 6" x 5'**Construction Time Log:**

Task	Start		Finish	
	Date	Time	Date	Time
Drilling				
HSA	7/10	0715	7/10	1150
Well Const	7/10	-	7/11	-
Geophys Logging				
Casing.				
Filter Placement	7/10	1300	7/10	1615
Cementing.	7/11	0700	7/11	0730
Development:	7/22	-	7/23	-
Other.				

**Well Development:**

Developed mw-16 w/ pre-boiler

**Comments:**

Recharge slow at first, but improved w/ time. Water very contaminated, but fairly clean of sediments.

Surged well w/ boiler to increase recovery

AR301080

WECREW

Well MW-17

# Well Construction Summary

Location or Coords: N 192,124.69  
E 917,886.57

Elevation. Ground Level 150.8 ft N  
Top of Casing 153.63 ft MSL

## Drilling Summary:

Total Depth Drilling to 400', well @ 370'  
Borehole Diameter ~11"

Driller Tim Jackson

Rig Mobil D-60  
Bit(s)  $3\frac{1}{4}''$  I.D. x  $6\frac{5}{8}''$  OD  
 $\phi''$  I.D. x 11' OD

Drilling Fluid None

Surface Casing

## Well Design:

Basis: Geologic Log  Geophysical Log

Casing String(s): C = Casing S = Screen

22'	-	37'	S	-	-
22'	-	+3'	C	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

Casing C1

C2

Screen: S1

S2

Centralizers

Filter Material

Cement

Other

## Construction Time Log:

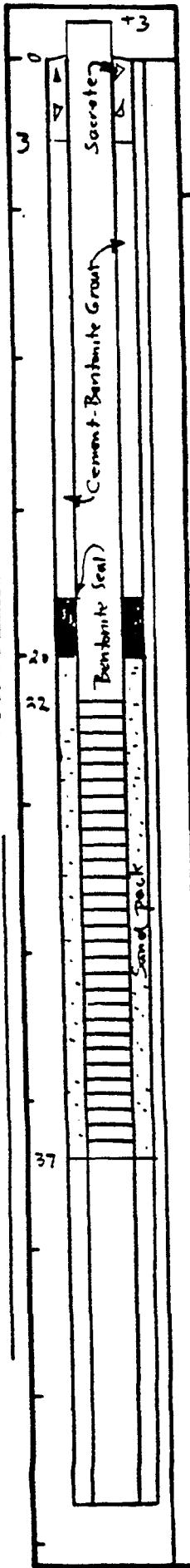
Task	Start		Finish	
	Date	Time	Date	Time
Drilling				
HSA	7/11	1030	7/11	1415
HSA	7/12	0630	7/12	0800
Well Const	7/12	-	7/12	-
Geophys Logging				
Casing				
Filter Placement	7/12	0900	7/12	1030
Cementing	7/12	1310	7/12	1410
Development.	7/13	-	7/13	-
Other.				

## Well Development:

Developed MW-17 w/ submersible pump & stainless steel bailer

## Comments:

Used pump during initial development, but pump malfunctioned. Switched to bailer after removing about 10 gal. There was approx 10' silt in screen before development. Silt was removed during bailing & water became fairly clear. Recovery improved also.



Location Personnel

Project Southern Maryland Wood Treatment

Holly Woods MD  
K. Ver. Alkin

AR301081

**WESTERN**  
WOOD TREATMENT



## **DRILLING LOG**

WELL NUMBER MW-6 OWNER: SMWT, Hollywood,  
LOCATION MD. ADDRESS: MD.  
\_\_\_\_\_ TOTAL DEPTH 370'  
\_\_\_\_\_ SURFACE ELEVATION. \_\_\_\_\_ WATER LEVEL: \_\_\_\_\_  
DRILLING DATE  
COMPANY: Hercules-Hunt DRILLING METHOD: HSA DRILLED: 6/17/86  
DRILLER Sum. HELPER: Brig., Jeff  
LOG BY: KVA

## **SKETCH MAP**

DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
0					Brown silty fine sand, poorly graded, loose, damp ST-SM
3.0		01	SS	2 3 6	Brown & gray clayey silt to silty fine sand, poorly graded, loose, damp. ML-SM
6.0		02	SS	2 2 2	White silty clay, trace fine sand, medium to stiff, medium plasticity, moist. CL
8.5		03	SS	5 6 6	Brown clayey silt, trace fine sand, non plastic, medium dense, moist. ML
11.0					Brown & gray silty clay, trace fine sand, stiff, medium plasticity, moist. CL
14.0					Orange brown medium to fine sand, trace silt, poorly graded, medium dense, moist to wet ST
17.0		04	SS	10 8 8	

AR301082

# WESTON

## DRILLING LOG

WELL NUMBER M.W.-6 OWNER: \_\_\_\_\_  
 LOCATION SMNT, Hollywood, MD  
 TOTAL DEPTH 370'  
 SURFACE ELEVATION  WATER LEVEL: \_\_\_\_\_  
 DRILLING COMPANY Harding-Hubert DRILLING METHOD HSA DATE 6/17/86  
 DRILLER Sum. HELPER Brian, Jeff  
 LOG BY KVA

### SKETCH MAP

### NOTES

DEPTH (FEET)	GRAPHIC LOG			DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	
= 5	05	SS	4 6	Orange brn silty, medium to fine sand, poorly graded, medium dense saturated. SM
3.2	06	SS	3 4 7	Brn coarse to fine sand, trace silt, well graded, medium dense, saturated. SW
7.5	07	SS	3 5 7	
10.5	08	SS	7 3 5	Yellow brn. Silty clay, trace fine sand, stiff, medium plasticity, moist, CL - CH
11.0	09	SS	2 2 2	Yellow brn & gr silty clay, trace fine sand, stiff, high plasticity, moist, CL - CH
11.5	10	SS	2 2 3	
12.0	11	SS	2 3 3	Dark gr. Silty clay, trace coarse to fine sand, medium to stiff, high plasticity, moist CH - OH
12.5				End of boring @ 37.0'

\* ASTM D1885

AR301083

SHEET 1 OF 1

# WESTON

## DRILLING LOG

WELL NUMBER MW-8

OWNER:

LOCATION \_\_\_\_\_

ADDRESS SW 1st Hollywood, MD.

TOTAL DEPTH 30.5'

SURFACE ELEVATION \_\_\_\_\_

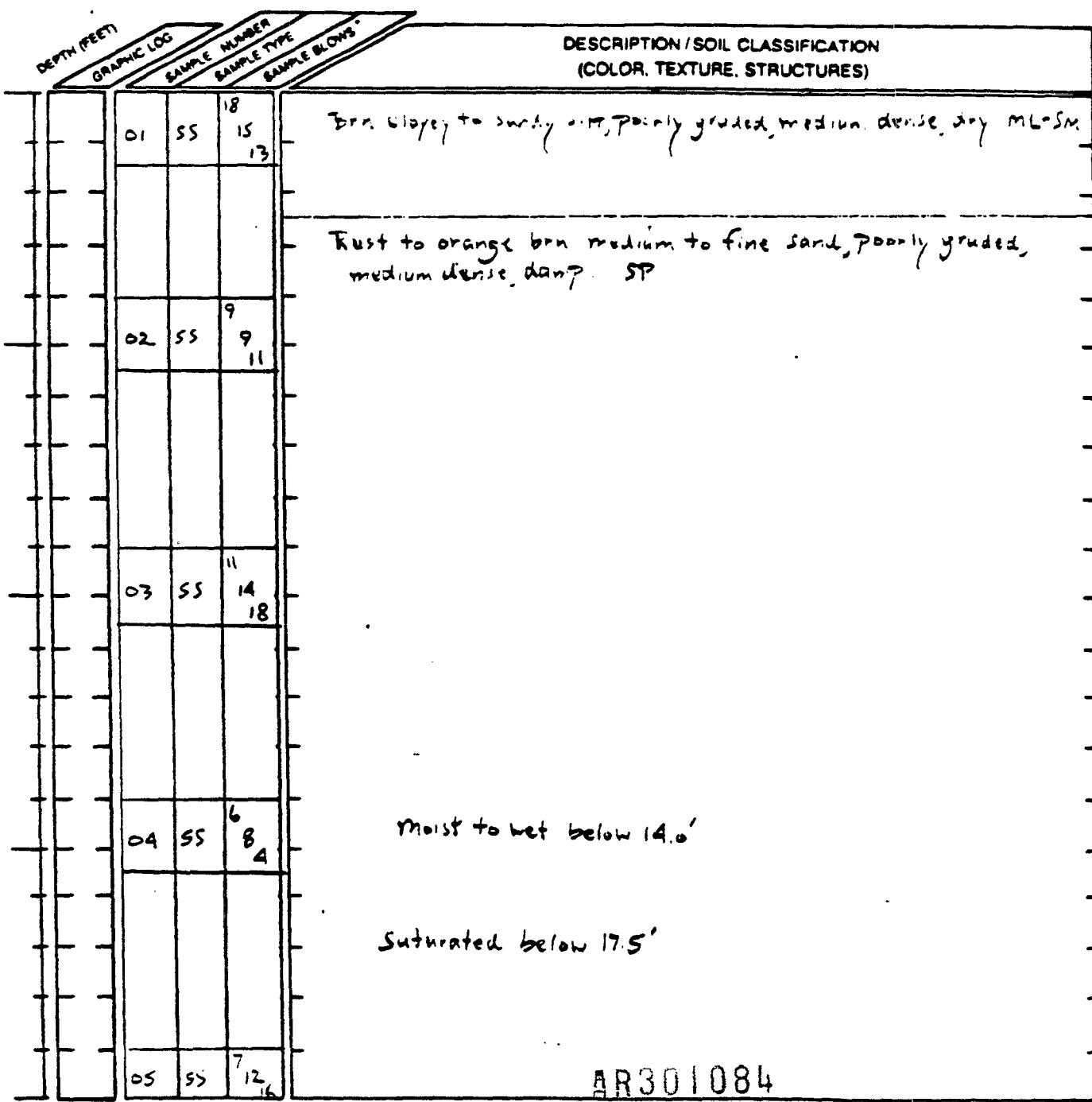
WATER LEVEL: \_\_\_\_\_

DRILLING COMPANY Hargan-Hubert DRILLING METHOD HSA DRILLED 6/20/86  
DRILLER Sam, Tim HELPER Brian, Jeff

LOG BY KVA

## SKETCH MAP

## NOTES



# WESTON

## DRILLING LOG

WELL NUMBER MW-8  
 LOCATION \_\_\_\_\_  
 OWNER: \_\_\_\_\_  
 ADDRESS SMBT, Hollywood, MD.  
 TOTAL DEPTH 30.5'  
 SURFACE ELEVATION \_\_\_\_\_  
 WATER LEVEL: \_\_\_\_\_  
 DRILLING COMPANY Harding-Hubert DRILLING METHOD: HSA DATE 6/20/26  
 DRILLER Tom, Tim HELPER Brian, Jeff  
 LOG BY: KVA

### SKETCH MAP

### NOTES

DEPTH (FEET)	GRAPHIC LOG			DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS'	
05	55			Rust to orange brown medium to fine sand, poorly graded, medium dense, saturated ST
06	55	25		Rust to orange brown medium to fine sand, little silt, poorly graded, very dense, saturated SP-SM
07	55	89	31	Rust to orange brown medium to fine sand, trace silt, poorly graded, very dense, saturated, appears contaminated SP
08	55	2	50	Yellow brown & gr. silty clay, trace fine sand, medium, medium plasticity, moist. CL-CH
				End of boring @ 30.5'

# WESTON

## DRILLING LOG

WELL NUMBER MW-10 OWNER: \_\_\_\_\_  
 LOCATION SMWT, Hollywood, MD  
 TOTAL DEPTH 30'  
 SURFACE ELEVATION  WATER LEVEL: \_\_\_\_\_  
 DRILLING COMPANY Harding-Huisert DRILLING METHOD: HSA DATE 6/28/86  
 DRILLER Tim HELPER Brian, Jeff  
 LOG BY: T La Costa

### SKETCH MAP

### NOTES

DEPTH FEET	GRAIN LOG				DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*		
01	SS	4 6 8			Light brn fine sand & silt, poorly graded, medium dense, dry SM-ML
02	SS	14 16 19			Pale gr & orange brn medium to fine sand, trace silt, poorly graded, medium dense, dry. SP
03	SS	5 7 8			Pale gr silty clay, trace to l. Hie fine sand, stiff, medium to high plasticity, moist CL-CH
04	SS	6 9 13			Pale gr medium to fine sand, trace silt, poorly graded, moist SP

**AR301086**

# WESTON

## DRILLING LOG

WELL NUMBER MW-10  
 LOCATION \_\_\_\_\_  
 TOTAL DEPTH 300'  
 SURFACE ELEVATION \_\_\_\_\_  
 WATER LEVEL: \_\_\_\_\_  
 DRILLING COMPANY Harding-Hewart DRILLING METHOD HSA DATE 6/28/86  
 DRILLER Tim HELPER Brian, Jeff  
 LOG BY. T. La Costa

### SKETCH MAP

### NOTES

DEPTH (FEET)	GRAPHIC LOG				DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*		
05	SS	6 10 9			True gr. medium to fine sand, trace silt, poorly graded, medium dense, moist to wet SP
10					
15					
20					
25	06	SS	20 34 21		Orange brn medium sand, 1:1/e silt, poorly graded, dense, saturated SP-SM
30	07	SS	50		Orange brn medium to coarse sand, trace fine gravel, poorly graded, dense, saturated SP
35	08	SS	12 27 8		Orange brn. medium to coarse sand, little gravel, trace silt, poorly graded, medium dense, saturated, SP
40	09	SS	7 6 5		Drk. gr. silty clay, trace fine sand, stiff, high plasticity, moist CH-OH
45					End of boring @ 30.0'
50					
55					
60					
65					
70					
75					
80					
85					
90					
95					
100					
105					
110					
115					
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265					
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275					
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285					
290					
295					
300					

**WESTERN**

## DRILLING LOG

WELL NUMBER. MW-11

**OWNER:** \_\_\_\_\_

**LOCATION**

ADDRESS: SMWT, Hollywood, MD.

---

TOTAL DEPTH 12.8'

**SURFACE ELEVATION** \_\_\_\_\_

**WATER LEVEL:** \_\_\_\_\_

DRILLING COMPANY Boring-Hubert DRILLING METHOD  
DRILLER Tim

NG DATE  
DD: HSA DRILLED  
HELPER: Drg. Jeff

LOG BY: J. Yann

**SKETCH MAP**

ASTM D1526

AR301088

SHEET 1 OF 1

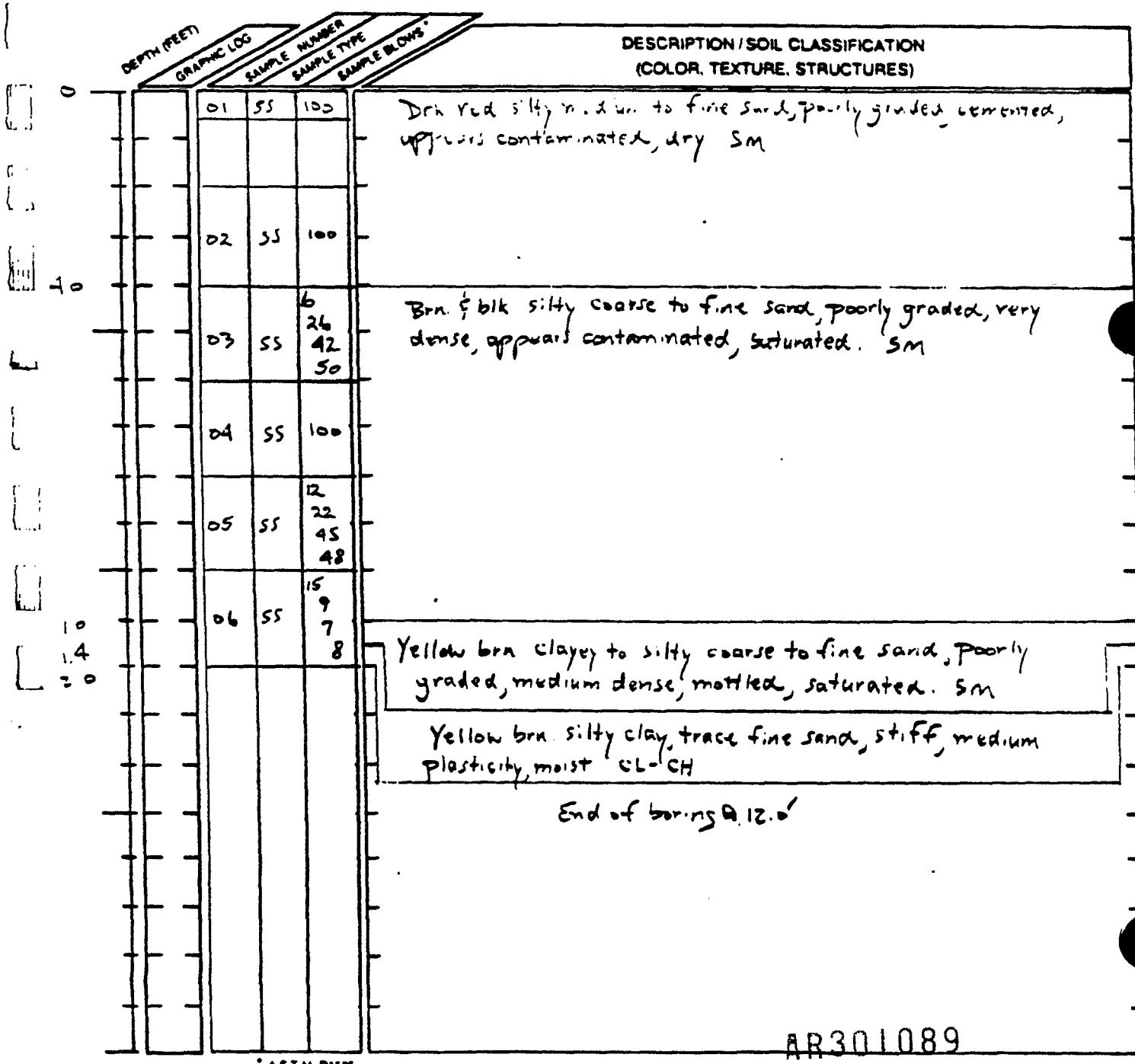
# WESTON

## DRILLING LOG

WELL NUMBER MW-1Z  
 LOCATION \_\_\_\_\_  
 SURFACE ELEVATION \_\_\_\_\_  
 DRILLING COMPANY Herding-Hubert DRILLING METHOD HSA DATE 6/30/86  
 DRILLER Tim HELPER Brigr, Jeff  
 LOG BY: KVA

### SKETCH MAP

### NOTES



AR301089

SHEET 1 OF 1

# WESTON

## DRILLING LOG

WELL NUMBER MW-13  
 OWNER \_\_\_\_\_  
 LOCATION \_\_\_\_\_  
 ADDRESS SMWT, Hollywood, MD.  
 TOTAL DEPTH 31.5'  
 SURFACE ELEVATION \_\_\_\_\_  
 WATER LEVEL \_\_\_\_\_  
 DRILLING COMPANY Harding-Hubert DRILLING METHOD HSA DATE 7/1/86  
 DRILLER Tim HELPER Briar, Jeff  
 LOG BY KVA

## SKETCH MAP

## NOTES

DEPTH (FEET)	GRAPHIC LOG			SAMPLE NUMBER SAMPLE TYPE SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	DI	SS	3 5 9 15		
0 - 10					Brown clayey to silty fine sand, occasional medium durst, poorly graded, medium dense, damp. SM
10 - 20	02	SS	4 2 2 2		Orange brown silt, fine sand, occasional medium to coarse sand, poorly graded, loose, moist SM
20 - 30	03	SS	2 11 27		
30 - 35	04	SS	5 6 6 9		Light brown silty to clayey medium to fine sand, occasional coarse sand, poorly graded, medium dense, slightly plastic, moist SC-SM
35 - 40	05	SS			

\* ASTM D1586

AR301090

SHEET 1 OF 1

# WESTON

## DRILLING LOG

WELL NUMBER MW-13

LOCATION \_\_\_\_\_

OWNER: \_\_\_\_\_

ADDRESS Saint Marys, MD

TOTAL DEPTH 31.5'

SURFACE ELEVATION \_\_\_\_\_

WATER LEVEL: \_\_\_\_\_

DRILLING COMPANY Hurd & Heart

DRILLING METHOD HSA

DATE DRILLED 7/1/86

DRILLER Tim

HELPER Terry, Jeff

LOG BY: KVA

## SKETCH MAP

## NOTES

DEPTH (FEET)	GRAPHIC LOG			DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	
0.5	55	16 42 58		Light brn. silt, to clayey, medium to fine sand, occasional coarse sand, poorly graded, medium dense, slightly plastic, wet SC-3M
0.6	55	38 62		
3.0				Drk red silty coarse to medium sand, some cementation, poorly graded, very dense, saturated. SM
6.7	55	100		Brown silty medium to coarse sand, poorly graded, medium dense, saturated SM
8.5	55	9 9 9		Yellow brn silty clay, trace fine sand, stiff, medium plasticity, moist. CL-CH
10.5	55	7 5 6 6		End of boring @ 31.5'

# WESTON

## DRILLING LOG

WELL NUMBER MW-14

LOCATION \_\_\_\_\_

OWNER: \_\_\_\_\_

ADDRESS SMWT, Hollywood, MD.

TOTAL DEPTH 13.5'

SURFACE ELEVATION \_\_\_\_\_

WATER LEVEL: \_\_\_\_\_

DRILLING COMPANY Harding-Hubert  
DRILLER Tim

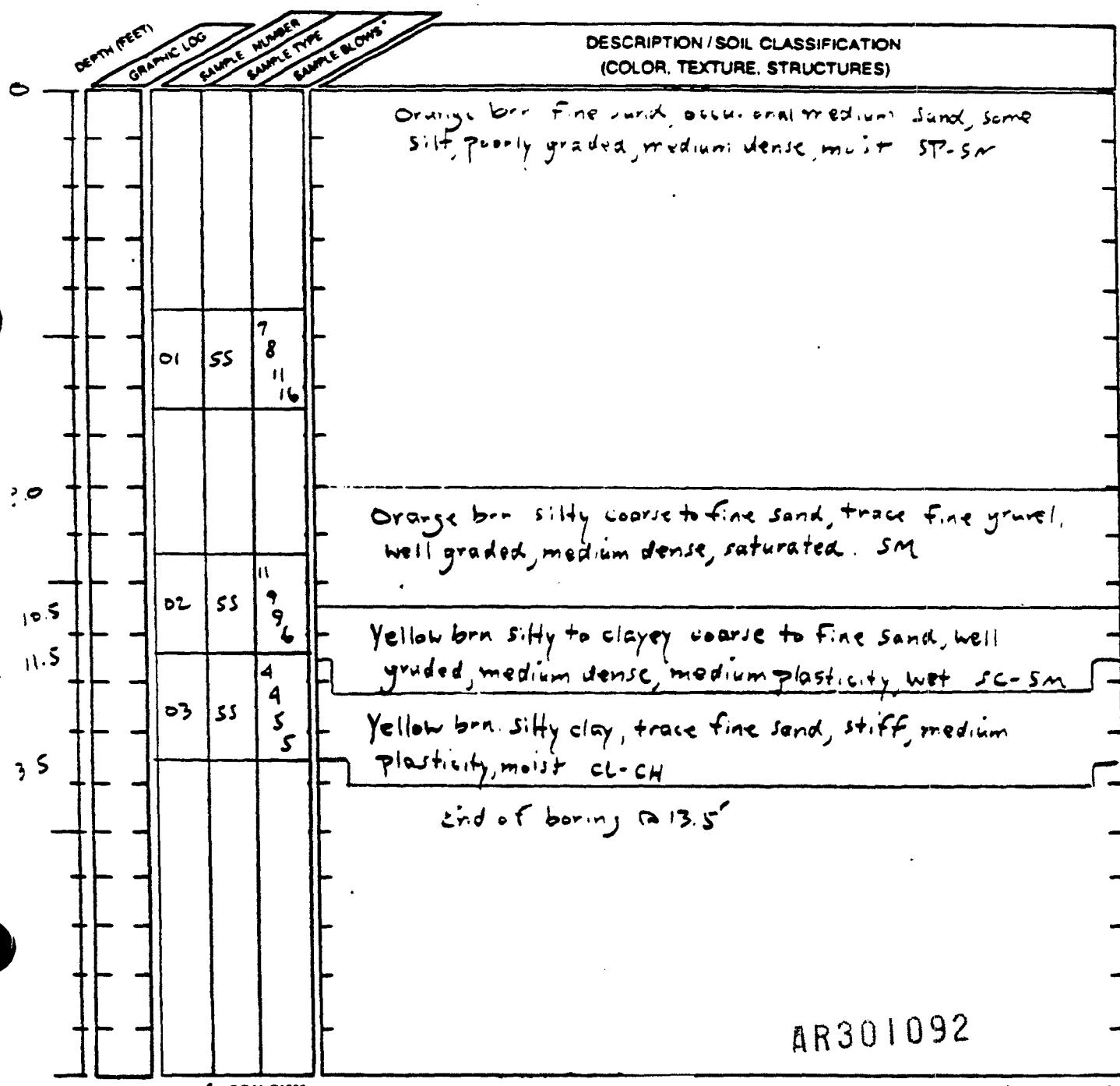
DRILLING METHOD: HSA  
HELPER: Brian, Jeff

DATE DRILLED: 7/7/86

LOG BY: KVA

## SKETCH MAP

## NOTES



AR301092

# WESCON

## DRILLING LOG

WELL NUMBER M.W.-15

LOCATION \_\_\_\_\_

OWNER: \_\_\_\_\_

ADDRESS Smart, Hollywood, MD.

TOTAL DEPTH 12.0'

SURFACE ELEVATION \_\_\_\_\_

WATER LEVEL: \_\_\_\_\_

DRILLING COMPANY Harding-Hubert DRILLING METHOD HSA  
DRILLER Tim

DATE DRILLED 7/8/86  
HELPER Bryan, Jeff

LOG BY. KVA

## SKETCH MAP

NOTES

DEPTH (FEET)	GRAPHIC LOG			DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS'	
0.0	01	SS	4 5 6	Brn fine sand, trace silt, poorly graded, medium dense, damp SP
0.1	02	SS	5 3 3 5	
0.2	03	SS	1 2 2 2	
0.3	04	SS	4 4 7 2	Light brn. silty medium to fine sand, poorly graded, loose, saturated. SM
0.4	05	SS	8 7 7 3	Orange brn. silty medium to fine sand, poorly graded, loose, saturated. SM
0.5	06	SS	5 3 2 3	Yellow brn. silty to clayey coarse to fine sand, well graded, medium dense, slightly plastic, saturated SC-SM
0.6				Yellow brn. silty clay, trace fine sand, stiff, medium plasticity, moist CL
1.0				End of boring @ 12.0'

# WESTON

## DRILLING LOG

WELL NUMBER MILW-1b

LOCATION \_\_\_\_\_

OWNER: \_\_\_\_\_

ADDRESS SMWT, Hollywood, MD.

TOTAL DEPTH 215'

SURFACE ELEVATION \_\_\_\_\_

WATER LEVEL: \_\_\_\_\_

DRILLING COMPANY Hards-Hubert DRILLING METHOD HSA  
DRILLER Tm

DATE 7/10/86  
HELPER Travis, Jeff

LOG BY: KVA

## SKETCH MAP

## NOTES

DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	
					01	02
5					3 6 10 15	
10						
15						
20						
25						
30						
35						
40						
45						
50						
55						
60						
65						
70						
75						
80						
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195						
200						
205						
210						
215						

WILSON

DRILLING LOG

WELL NUMBER MW-16

LOCATION \_\_\_\_\_

OWNER: \_\_\_\_\_

ADDRESS JMWT, Hollywood, MD.

SURFACE ELEVATION \_\_\_\_\_

TOTAL DEPTH 21.5'

WATER LEVEL: \_\_\_\_\_

DRILLING COMPANY Harding-Hubert

DRILLING METHOD RSA

DATE

DRILLED 7/10/86

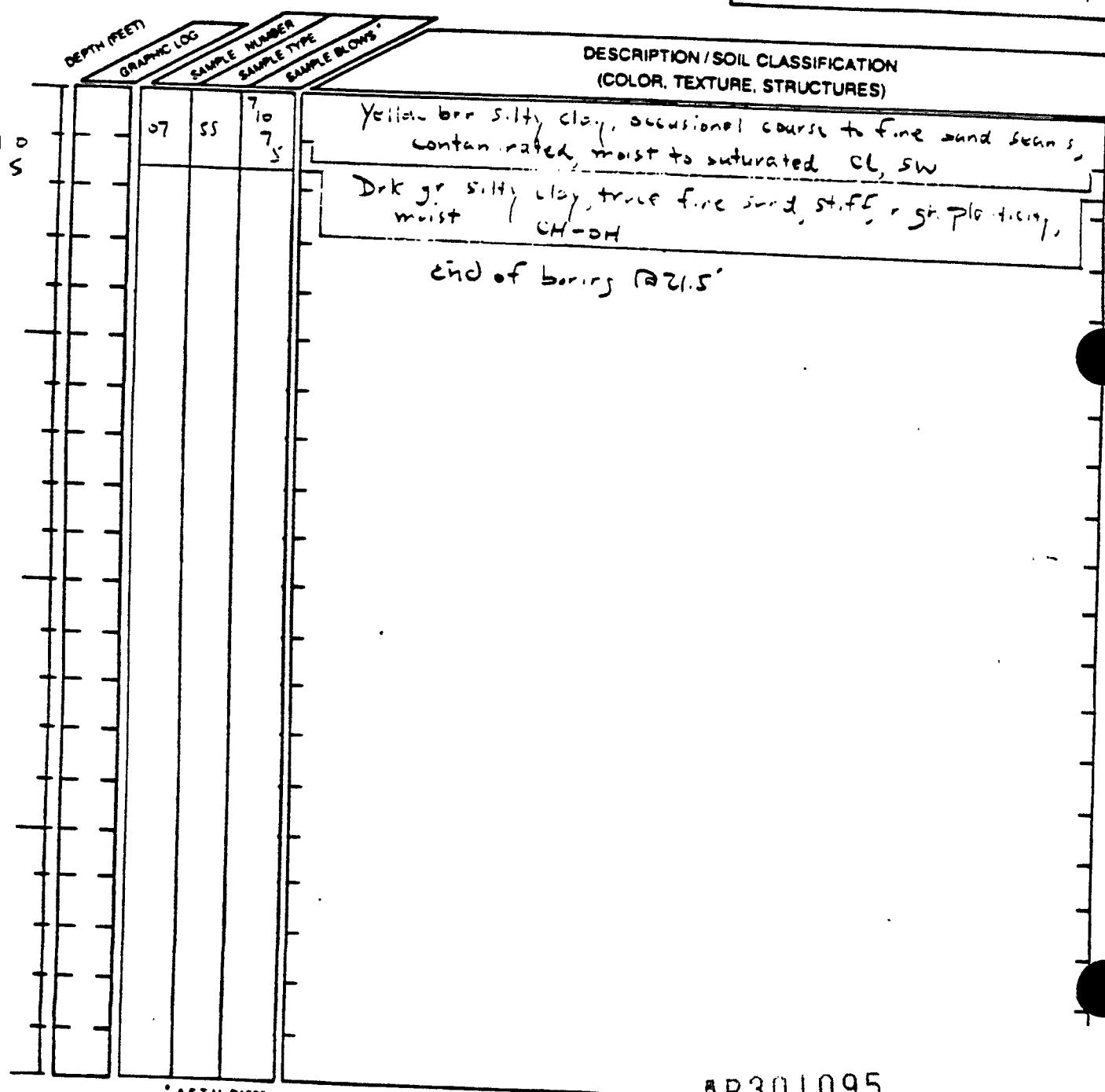
DRILLER T.M.

HELPER Brian, Jeff

LOG BY KVA

SKETCH MAP

NOTES



AR301095

SHEET 1 OF 2

# WESTON

## DRILLING LOG

WELL NUMBER MW-17

LOCATION \_\_\_\_\_

OWNER \_\_\_\_\_

ADDRESS Smart, Hollywood, MD.

SURFACE ELEVATION \_\_\_\_\_

TOTAL DEPTH 40.0'

DRILLING COMPANY Harding-Hubert

DRILLING METHOD HSA

DATE

DRILLED 7/14/86

DRILLER Tim

HELPER Brian, Jeff

LOG BY. KYA

## SKETCH MAP

## NOTES

DEPTH (FEET)	GRAPHIC LOG				SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	
	6	11	11	15					
0.0	01	SS	6	11				Orange brn. clayey silt, little medium to fine sand, poorly graded, medium dense, damp. ML	
1.0									
2.0	02	SS	12	11				Orange brn. Silty medium to fine sand, little clay, poorly graded, dense, moist. SM	
3.0			14	17					
4.0	03	SS	5	10					
5.0			12	15					
6.0	04	SS	3	6				Orange brn. Silty medium to fine sand interbedded with silty coarse to fine sand, poorly to well graded, medium dense, moist. SM	
7.0			9	9					
8.0	05	SS						Orange brn & white medium to fine sand, trace silt poorly graded, medium dense, moist. SP	

\*ASTM D1886

AR301096

Sheet 1 of 1

**WESTON**

## DRILLING LOG

WELL NUMBER MW-17

**OWNER:** \_\_\_\_\_

**LOCATION** \_\_\_\_\_

ADDRESS 511 W. 10th Street, MD.

TOTAL DEPTH 40.0'

#### **SUBEACE ELEVATION**

**WATER LEVEL:**

**DRILLING**

ING DATE

DRILLING COMPANY Hardinge - Huber

DD: HSA DRILLED: 7/14/86

LOG BY KVA

## SKETCH MAP

DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	
					05	06
				4 7 10 11	Orange brn. & white medium to fine sand, trace silt, poorly graded, medium dense, moist	SP
				8 6 8 7	Orange brn. & white medium to fine sand, trace coarse sand, trace silt, poorly graded, medium dense, saturated.	SP
				6 8 11 11		
				8 11 13 16		
				10 8 4 5		
				4 4 5 4	Drk. gr. silty clay, trace fine sand, stiff, high plasticity, moist to saturated	CH-DH
					End of boring @ 4/28/097	

ASTM D156

SHEET 2 OF 2

# WESTON

## DRILLING LOG

WELL NUMBER B-1 OWNER \_\_\_\_\_  
 LOCATION \_\_\_\_\_ ADDRESS SMWT, Hollywood MD.  
 TOTAL DEPTH 40.0'  
 SURFACE ELEVATION \_\_\_\_\_ WATER LEVEL ~22'  
 DRILLING COMPANY Harding-Hubert DRILLING METHOD HSA DATE 7/17/86  
 DRILLER Tim HELPER Brian, Jeff  
 LOG BY KVA

## SKETCH MAP

NOTES

DEPTH (FEET)	GRAPHIC LOG				DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS		
0	01	SS	5 12 7 9		Brown fine sand, trace silt, poorly graded, medium dense, damp SP
2.0	02	SS	11 21 31 21		Orange brown fine sand, little silt, poorly graded, very dense, moist. SP-SM
4.5	03	SS	11 15 18 20		Orange brown silty medium to fine sand, occasional coarse sand, poorly graded, dense, moist. SM
7.0	04	SS	8 14 23 27		Rust red & white silty to clayey medium to fine sand, occasional coarse sand, poorly graded, medium plasticity, moist SC-SM
7.5	05	SS	11 19 19 19		Rust orange & brown, medium to fine sand, little silt, poorly graded, dense, moist SP-SM
11.0	06	SS	4 10 20 22		Brown to orange brown medium to fine sand, trace silt Poorly graded, dense, moist. SP
13.5	07	SS	10 15 17 20		White medium to fine sand, trace silt, poorly graded, dense, moist. SP
16.0	08	SS	7 14 16 22		Brown & white medium to fine sand, trace silt, poorly graded, dense, moist. SP
	09	SS	7 17 25 24		
	10	SS	7 14 20 21		

# WESTERN

## DRILLING LOG

WELL NUMBER B-1  
 LOCATION \_\_\_\_\_  
 SURFACE ELEVATION \_\_\_\_\_  
 DRILLING COMPANY Harding-Hubert DRILLING METHOD HSA DATE DRILLED 7/9/86  
 DRILLER J.m. HELPER Brian, Jeff  
 LOG BY KVA

## SKETCH MAP

### NOTES

DEPTH (FEET)	GRAPHIC LOG				DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS		
11	SS				Brn. & white medium to fine sand, trace silt, poorly graded, dense, wet to saturated. SP
12	SS				
13	SS				
14	SS				
15	SS				Brn. & white medium to fine sand, occasional coarse sand, occasional fine gravel, trace silt, poorly graded, dense, saturated. SP
16	SS				
17	SS				Brn. & white coarse to fine sand, little to trace silt, well graded, dense, saturated. SW-SM
18	SS				
19	SS				Yellow brown silty clay, occasional coarse to fine sand, very stiff high plasticity, moist CL-CH
20	SS				Dk gr. Silty clay, trace fine sand, high plasticity, moist CH-CH

ASTM D1586

End of boring @ 40'

AR30109 SHEET 2 OF 2

# WESTERN

## DRILLING LOG

WELL NUMBER B-2  
 OWNER \_\_\_\_\_  
 LOCATION \_\_\_\_\_  
 ADDRESS SMWT, Hollywood, MD.  
 TOTAL DEPTH 18.0'  
 SURFACE ELEVATION \_\_\_\_\_  
 WATER LEVEL ~ 10'  
 DRILLING COMPANY Harding-Hubert DRILLING METHOD HSA DATE 7/23/86  
 DRILLER Tim HELPER Bright, Jeff  
 LOG BY: KVA

## SKETCH MAP

## NOTES

DEPTH (FEET)	GRAPHIC LOG			DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	
0	01	SS	6 7 8 7	Drk. brn silt & fine sand, poorly graded, medium dense, moist SM-ML
4.0	02	SS	5 4 4 3	
6.0	03	SS	3 3 4 8	Light brn. medium to fine sand, poorly graded, medium dense, moist. SP
9.3	04	SS	3 4 8 10	White, gr. & brn. Silty to clayey medium to fine sand, poorly graded, medium dense, moist to wet. SC-SM
14.5	05	SS	3 8 12 13	Brn. coarse to fine sand, trace silt, well graded, medium dense, saturated. SW
8.0	06	ST	7 8 9 10	
	07	SS	7 8 8	
	08	SS	2 3 2 4	Yellow brn. silty clay, some medium to fine sand, stiff, medium plasticity, moist CL-CH
	09	ST		Drk. gr. silty clay, trace fine sand, stiff, high plasticity, moist. CH-OH
				End of boring @ 18.0'

ASTM D1586

SHEET 1

AR301100

# WESTERN

## DRILLING LOG

WELL NUMBER B-3 OWNER \_\_\_\_\_  
 LOCATION \_\_\_\_\_ ADDRESS SMWT, Hollywood, MD.  
 SURFACE ELEVATION \_\_\_\_\_ TOTAL DEPTH 20.0'  
 DRILLING COMPANY Harding-Hubert DRILLING METHOD HSA DATE 7/15/86  
 DRILLER Tim HELPER Brian, Jeff  
 LOG BY KVA

## SKETCH MAP

### NOTES

DEPTH (FEET)	GRAPHIC LOG				DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DATE	
6	01	SS	4 13 10		Dark brown. silty fine sand, poorly graded, medium dense, some staining. moist. SM
12	02	SS	10 7 4		Dark brown. silty fine sand, poorly graded, medium dense, moist. SM
1.0	03	SS	4 4 10 12		Brown. silty clay, some fine sand, stiff, medium plasticity, moist. CL
2.0	04	SS	4 5 9 11		Orange brown. silty clay, some fine sand, stiff, medium plasticity, moist. CL
3.0	05	SS	4 8 10 12		Orange brown. medium to fine sand, poorly graded, medium dense, moist. SP
4.0	06	SS	8 10 12 5		Orange brown. silty medium to fine sand, poorly graded, medium dense, moist. SM
5.0	07	SS	5 6 7 9		
6.0	08	SS	5 7 7 8		Orange brown & white silty to clayey medium to fine sand, poorly graded, medium dense, medium plasticity, moist. SC-SM
7.0	09	SS	5 6 9 13		Orange brown & white coarse to fine sand, trace silt, well graded, medium dense, saturated SW
8.0	10	SS	4 8 10 12		

\* ASTM D-692

End of boring @ 20.0'

AR301101 SHEET 1 0

# WESTON

## DRILLING LOG

WELL NUMBER B-4 OWNER \_\_\_\_\_  
 LOCATION \_\_\_\_\_ ADDRESS SMWT, Hollywood, MD  
 SURFACE ELEVATION \_\_\_\_\_ TOTAL DEPTH 36.0'  
 DRILLING COMPANY Harding-Hubert DRILLING METHOD HSA DATE DRILLED 7/15/86  
 DRILLER T.M. HELPER Bright, Jeff  
 LOG BY KVA

## SKETCH MAP

## NOTES

DEPTH (FEET)	GRAPHIC LOG				DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS		
0	01	SS	8 7 4 5	-	Brown clayey silt, some medium to fine sand, poorly graded, loose, some staining, wood chips, moist. ML
2.0	02	SS	10 13 16 10	-	Brown silty medium to fine sand, poorly graded, medium dense, (some staining), moist. SM
5.5	03	SS	4 6 5 3	-	Brown silty clay, occasional fine sand, stiff, medium Plasticity, moist. CL
8.0	04	SS	3 4 5 4	-	Brown & white silty clay, some fine sand, stiff, medium Plasticity, moist. CL
11.0	05	SS	3 4 6 8	-	.
12.0	06	SS	5 8 9 9	-	.
13.5	07	SS	13 15 16 13	-	Orange brown medium to fine sand, occasional coarse sand, little silt, poorly graded, medium dense, moist to wet. SP-SM
16.0	08	SS	5 9 11 8	-	.
17.5	09	SS	5 6 6 6	-	Orange brown & white silty medium to fine sand, poorly graded, medium dense, wet. SM
19.0	10	SS	3 4 4 5	-	.



### DRILLING LOG

WELL NUMBER B-4 OWNER \_\_\_\_\_  
 LOCATION SMWT, Hollywood, MD.  
 TOTAL DEPTH 30.0'  
 SURFACE ELEVATION ~20'  
 DRILLING COMPANY Hunting-Hubert DRILLING METHOD HSA DATE DRILLED 7/5/86  
 DRILLER Tim HELPER Brian, Jeff  
 LOG BY. KVA

### SKETCH MAP

### NOTES

DEPTH (FEET)	GRAPHIC LOG				DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS'		
11	SS	4 6 9 10			Orange brn & white coarse to fine sand, occasional fine gravel, trace silt, well graded, medium dense, saturated. SW
12	SS	7 9 13 31			Mottling or discoloration noted below 24'
13	SS	41 20 19 17			
14	SS	8 8 9 11			Yellow brn. silty to clayey coarse to fine sand, slightly plastic, medium dense, wet to saturated. SC-SM
15	ST				Yellow brn. silty clay, trace fine sand, medium to stiff, medium plasticity, moist CL-CH
					End of boring @ 30.0'

AR301103

# WESTON

## DRILLING LOG

WELL NUMBER B-5

LOCATION \_\_\_\_\_

OWNER \_\_\_\_\_

ADDRESS SMWT, Holly Woods, MD.

TOTAL DEPTH 24.0'

SURFACE ELEVATION \_\_\_\_\_

WATER LEVEL ~22'

DRILLING COMPANY Harding-Hubert

DRILLING METHOD HSA

DATE

DRILLED 7/16/86

DRILLER Tim

HELPER Brian, Jeff

LOG BY. KVA

## SKETCH MAP

## NOTES

DEPTH (FEET)	GRAPHIC LOG			DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	
0				Orange brn silty to clayey medium to fine sand, some staining, poorly graded, dense, fill, moist. SC-SM
0.6	01	SS	10 20 30 15	Brn silty clay, trace fine sand, very stiff, medium plasticity, moist. CL
3.0	02	SS	13 15 28 25	Orange brn. silty to clayey medium to fine sand, poorly graded, dense, slightly plastic, moist. SC-SM
4.0	03	SS	7 11 15 17	Orange to rust brn. silty clay, some medium to fine sand, very stiff, medium plasticity, moist. CL
6.0	04	SS	8 15 19 30	Orange to rust brn. silty medium to fine sand, poorly graded, dense, moist. SM
8.5	05	SS	10 25 20 23	Orange brn silty coarse to fine sand interbedded with white & orange brn. silty to clayey Coarse Sand, Poorly to well graded, dense, moist. SM
10.0	06	SS	16 13 16 25	
11.0	07	SS	9 13 11 11	
14.0	08	SS	7 14 7 11	Light orange brn. medium to fine sand, occasional coarse sand, little silt, poorly graded, medium dense, moist. SP-SM
16.0	09	SS	10 12 17 20	Orange brn. & white silty medium to fine sand interbedded with silty clay, poorly graded, dense, moist to wet. SM, CL
18.0	10	SS	6 11 15 19	

\* ASTM D368

AR301104

FEET 1 OF 2

# WESTON

## DRILLING LOG

WELL NUMBER B-5  
 LOCATION \_\_\_\_\_  
 TOTAL DEPTH 24.0'  
 SURFACE ELEVATION \_\_\_\_\_  
 WATER LEVEL ~22'  
 DRILLING COMPANY Harding-Hubert DRILLING METHOD HSA DATE 7/16/86  
 DRILLER T.m HELPER Brian, Jeff  
 LOG BY KVA

## SKETCH MAP

### NOTES

DEPTH (FEET)	GRAPHIC LOG				DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*		
11	SS	6 12 14 17			Light orange brn. & white medium to fine sand, occasional coarse sand, trace silt, poorly graded, dense, wet to saturated . SP
12	SS	14 14 11 5			
					End of boring @ 24.0'

AR301105

# WESTERN

## DRILLING LOG

WELL NUMBER B-6  
 LOCATION \_\_\_\_\_  
 SURFACE ELEVATION \_\_\_\_\_  
 DRILLING COMPANY HARDY-HUBERT DRILLING METHOD HSA DATE DRILLED 7/17/86  
 DRILLER Tim HELPER Brian, Jeff  
 LOG BY KYA

### SKETCH MAP

### NOTES

DEPTH (FEET)	GRAPHIC LOG				DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS'		
0					Orange brn. silty clay some coarse to fine sand, little coarse to fine gravel, stiff, medium plasticity, moist, fill. CL
0.4	01 SS	35	10 32 28 10		Brown clayey silt, some coarse to fine sand, occasional coarse to fine gravel, some staining, poorly graded, dense, moist, fill. ML
2.0	02 SS	55	8 7 18 24		Brown clayey silt, trace clay, trace fine sand, slightly plastic, dense, moist. ML
3.0	03 SS	55	18 30 32 34		Light orange brn. silty fine sand, occasional medium sand, poorly graded, very dense, moist. SM
4.0	04 SS	55	15 14 16 20		Rust to orange brn. silty to clayey medium to fine sand, poorly graded, dense, slightly plastic, moist. SC-SM
5.5	05 SS	55	8 13 18 20		.
6.5	06 SS	55	10 13 18 21		Rust orange, brn. & white silty to clayey medium to fine sand, with silty clay seams, poorly graded, dense, low to medium plasticity, moist. SC-SM, CL
7.0	07 SS	55	14 14 18 23		.
8.0	08 SS	55	8 12 16 14		Light orange brn. fine sand, occasional medium sand, little silt, poorly graded, medium dense, moist. SP-SM
9.0	09 SS	55	6 12 8 10		Orange brn & white silty to clayey fine sand, with coarse to fine sand seams, poorly to well graded, dense, moist. SC-SM, SW
10.0	10 SS	55	6 10 15 15		

# WESTON

## DRILLING LOG

WELL NUMBER B-6  
 OWNER \_\_\_\_\_  
 LOCATION \_\_\_\_\_  
 ADDRESS SMWT, Hollywood, MD  
 TOTAL DEPTH 28'  
 SURFACE ELEVATION \_\_\_\_\_  
 WATER LEVEL ~24'  
 DRILLING COMPANY Harding-Hubert DRILLING METHOD HSA DATE 7/17/86  
 DRILLER Tim HELPER Brian, Jeff  
 LOG BY KVA

### SKETCH MAP

### NOTES

DEPTH (FEET)	GRAPHIC LOG				DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS		
22.0	11	SS	6 11 14		Orange brn & white silty to clayey fine sand with coarse to fine sand seams, poorly to well graded, dense, moist. SC-SM, SW
23.0	12	SS	10 19 22 22		Orange brn, medium to fine sand, trace silt, poorly graded, dense, wet SP
24.5	13	SS	5 7 6 5		Orange brn & white silty to clayey coarse to fine sand, well graded, medium dense, wet to saturated. SC-SM
26.0	14	SS	18 18 19 17		Orange brn, medium to fine sand, occasional coarse sand, trace silt, poorly graded, saturated. SP
28.0					End of boring @ 28.0'

ASTM DISC

AR301107

SHEET 2 OF 2

# WESTON

## DRILLING LOG

WELL NUMBER B-7  
 LOCATION \_\_\_\_\_  
 ADDRESS SMWT, Hollywood MD.  
 TOTAL DEPTH 38.0'  
 SURFACE ELEVATION \_\_\_\_\_  
 WATER LEVEL: ~22'  
 DRILLING COMPANY Harding-Hubert DRILLING METHOD HSA DATE 7/18/86  
 DRILLER Tim HELPER Brian, Jeff  
 LOG BY KVA

### SKETCH MAP

### NOTES

DEPTH (FEET)	GRAPHIC LOG			DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	
0				
0.4	01	SS	8 13 14 13	Orange brn. Silty to clayey medium to fine sand, poorly graded, medium dense, low plasticity, moist, fill SC-SM
1.3	02	SS	4 6 18 15	Grayish brn. clayey silt, some fine sand, staining, poorly graded, medium dense, moist. ML
4.0	03	SS	17 26 26 18	Brown. Silty clay to clayey silt, some fine sand, very stiff or dense, moist. CL-ML
6.0	04	SS	7 12 20 25	Brown silt & fine sand, little clay, poorly graded, dense to very dense, moist. ML-SM
8.0	05	SS	6 17 24 24	Rust to orange brn. Silt & fine sand, little clay, poorly graded, dense, moist. ML-SM
10.0	06	SS	10 17 25 25	Orange brn. Silty to clayey fine sand, poorly graded, dense, slightly plastic, moist. SC-SM
11.7	07	SS	9 11 15 13	Orange brn. Silty fine sand, poorly graded, medium dense, moist. SM
13.7	08	SS	7 8 12 15	Orange brn. Silty fine sand with orange brn. & white silty clay seams, poorly graded, medium dense, non-plastic to medium plasticity, moist. SM, CL
15.0	09	SS	6 8 9 9	
16.0	10	SS	12 8 9	

# WESTON

## DRILLING LOG

WELL NUMBER B-7  
 LOCATION \_\_\_\_\_  
 SURFACE ELEVATION \_\_\_\_\_  
 DRILLING COMPANY Hawkins Hubert DRILLING METHOD HSA DATE 7/18/86  
 DRILLER T.M. HELPER Brian, Jeff  
 LOG BY KVA

## SKETCH MAP

### NOTES

DEPTH (FEET)	GRAINIC LOG			DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS'	
0.5	11	SJ	8 11 16	Orange brn siltly fine sand with orange brn. f white silty clay seams, poorly graded, medium dense, non plastic to medium plasticity moist SM-CL
2.0	12	SS	11 11 15 15	Orange brn f white silty to clayey coarse to fine sand, well graded medium dense; slightly plastic, moist. SC-SM
3.0	13	SS	6 5 6 8	Orange brn f white medium to fine sand, little silt, poorly graded, medium dense, wet to saturated, SP-SM
25.7	14	SS	12 14 16 17	Brown f white coarse to fine sand, little silt, well graded, medium dense to dense, saturated. SW-SM
37.6	15	SS	9 9 12 6	
38.0	16	SS	5 10 12 22	
	17	SS	12 27 28 44	
	18	SS	20 21 30 75	
	19	SS	15 20 10 5	Yellow brown silty clay, trace fine sand, stiff, medium plasticity, moist. CL-CH

ASTM D-562

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SHEET 2 OF 2

# WESTON

## DRILLING LOG

WELL NUMBER B-8

LOCATION \_\_\_\_\_

OWNER \_\_\_\_\_

ADDRESS SMWT, Holly Woods, MD.

TOTAL DEPTH 240'

SURFACE ELEVATION \_\_\_\_\_

WATER LEVEL ~22'

DRILLING COMPANY Harding-Hubert  
DRILLER T.M.

DRILLING METHOD HSA  
HELPER Brian, Jeff

DATE DRILLED 7/22/86

LOG BY KVA

## SKETCH MAP

## NOTES

DEPTH (FEET)	GRAPHIC LOG			DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	
0	01	SS	7 16 16 18	Brown silty clay little fine sand, stiff, medium plasticity, moist CL
.4	02	SS	23 25 25 20	Brown clayey silt, some medium to fine sand, poorly graded, dense, moist. ML-SM
2	03	SS	11 20 13 18	Orange brown silty medium to fine sand with orange brown silty clay seams, poorly graded, dense, non plastic to medium plasticity, moist. SM, CL
4	04	SS	11 12 13 16	
5	05	SS	10 11 15 18	
6	06	SS	4 8 15 17	
7	07	SS	9 12 13 18	
8	08	SS	9 8 4 5	Light orange brown medium to fine sand, occasional coarse sand, trace silt, poorly graded, loose, moist. SP
9	09	SS	9 12 13 21	Orange brown & white medium to fine sand, trace silt, poorly graded, medium dense, moist. SP
10	10	SS	11 12 13 8	

\* ASTM D1586

AR30TTT0

SHEET 1 OF 2

# WESTON

## DRILLING LOG

WELL NUMBER B-8  
 OWNER \_\_\_\_\_  
 LOCATION \_\_\_\_\_  
 ADDRESS SMWT, Hollywood, MD  
 TOTAL DEPTH 24.0'  
 SURFACE ELEVATION \_\_\_\_\_  
 WATER LEVEL ~22'  
 DRILLING COMPANY Harding-Hubert DRILLING METHOD HSA DATE 7/22/86  
 DRILLER Tim HELPER Brian, Jeff  
 LOG BY. KVA

## SKETCH MAP

### NOTES

DEPTH (FEET)	GRAPHIC LOG				DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS		
11	55	S 7 7 10			Orange brn & white medium to fine sand, trace silt, trace clay poorly graded, medium dense, wet to saturated SP
12	55	S 7 10 12			
24.0					End of boring @ 24.0'

AR301111

ASTM D-562

# WESTERN

## DRILLING LOG

WELL NUMBER B-9  
 LOCATION \_\_\_\_\_  
 SURFACE ELEVATION \_\_\_\_\_  
 DRILLING COMPANY Harding-Hubert DRILLING METHOD HSA DATE DRILLED 7/17/86  
 DRILLER T.M. HELPER Brian, Jeff  
 LOG BY KVA

### SKETCH MAP

DEPTH (FEET)	GRAPHIC LOG				DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS'		
0	D1	SS	12 16 22		Drk. brown clayey silt, staining, poorly graded, medium dense, moist. ML
4	D2	SS	10 11 13 16		Brown clayey silt, occasional medium to fine sand, poorly graded, medium dense, moist. ML
8	D3	SS	10 10 18 19		Rust to orange brown silty medium to fine sand, little clay, poorly graded, moist. SM
12	D4	SS	18 19 26 25		
16	D5	SS	10 15 23 18		
20	D6	SS	9 21 30 22		Rust to orange brown silty medium to fine sand with silty coarse to fine sand seams, poorly to well graded, dense, moist. SM
24	D7	SS	17 23 20 19		
28	D8	SS	11 15 22 30		
32	D9	SS	17 25 32 40		
36	D10	SS	30 30 37 47		

**WESTON**

## DRILLING LOG

WELL NUMBER B-9 OWNER \_\_\_\_\_  
LOCATION \_\_\_\_\_ ADDRESS SMLT, 1014 Wood, MD.  
SURFACE ELEVATION \_\_\_\_\_ TOTAL DEPTH 260'  
WATER LEVEL ~ 24'  
DRILLING COMPANY Hawing-Hubert DRILLING METHOD HSA DATE 7/17/86  
DRILLER Tim HELPER Brian, Jeff  
LOG BY KVA

**SKETCH MAP**

DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
11	ss	27 39 40 35			Yellow-orange brown medium to fine sand, trace silt, poorly graded, very dense, moist SP
12	ss	11 11 13 13			Light orange brown medium to fine sand, occasional coarse sand seams, trace silt, poorly graded, moist SP
13	ss	5 5 8 8			Light orange brown & white medium to fine sand, trace silt, with silty clay seams, moist to wet SP, CL
					Light brown coarse to medium sand, some fine gravel, trace silt with silty clay seams, poorly graded, medium dense, Saturated SP, CL
					End of boring @ 26.0'

AR301113

# WESTON

## DRILLING LOG

WELL NUMBER B-10

OWNER \_\_\_\_\_

LOCATION \_\_\_\_\_

ADDRESS SMWT, Hollywood MD.

\_\_\_\_\_

TOTAL DEPTH 22'

SURFACE ELEVATION \_\_\_\_\_

WATER LEVEL: ~20'

DRILLING COMPANY Harding-Hubert

DRILLING METHOD HSA

DATE

DRILLER Tim

HELPER Brian, Jeff

LOG BY: KVA

## SKETCH MAP

NOTES

DEPTH (FEET)	GRAPHIC LOG			DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	
0	01	SS	63 16 16 15	Dark brown clayey to silty medium to fine sand, staining, poorly graded, dense, moist Sm
2	02	SS	7 7 8 8	Orange or silty medium to fine sand poorly graded, dense, moist Sm
4	03	SS	12 14 17 18	Orange brown & white silty clay with silty sand seams, stiff, medium plasticity, moist CL, Sm
6	04	SS	12 18 22 22	Orange brown, medium to fine sand, trace silt, poorly graded, medium dense to dense, moist. SP
8	05	SS	8 12 18 22	
10	06	SS	5 14 12 12	
12	07	SS	6 " " 16 18	
14	08	SS	9 9 12 24	Orange to rust brown coarse to fine sand, little silt, trace clay, well graded, medium dense to dense, discoloration noted, moist to wet. SW-SM
16	09	SS	11 6 4 5	Orange brown, silty coarse to fine sand, trace clay, well graded, loose, wet. SM
18	10	SS	2 4 6 14	

# WESTON

## DRILLING LOG

WELL NUMBER B-10 OWNER \_\_\_\_\_  
LOCATION \_\_\_\_\_ ADDRESS Smart, Hollywood, MD.  
SURFACE ELEVATION \_\_\_\_\_ TOTAL DEPTH 220'  
WATER LEVEL ~20'  
DRILLING COMPANY Hawkins-Hubert DRILLING METHOD HSA DATE 7/22/86  
DRILLER Tim HELPER Brian, Jeff  
LOG BY KVA

**SKETCH MAP**

DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
11	SS	7 P 6 8			Orange brown silty coarse to fine sand, trace clay, well graded, medium dense, saturated SM  End of boring @ 22.0'

ASIM RAY

~~AR301115~~

SHEET 2 OF 2

SOIL SYSTEM INC.  
**WESTON**

DRILLING LOG

WELL NUMBER B-11 OWNER \_\_\_\_\_  
 LOCATION SMLT, Hollywood, MD  
 TOTAL DEPTH 24'  
 SURFACE ELEVATION ~10'  
 DRILLING COMPANY Hurdling-Hubert DRILLING METHOD HSA DATE 7/19/86  
 DRILLER T.M. HELPER R.G., J.S.F.  
 LOG BY KVA

SKETCH MAP

NOTES

DEPTH (FEET)	GRAPHIC LOG			DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	
0	01	SS	6 3 6	Brown to orange brown. Silty medium to fine sand, poorly graded, medium dense, staining moist. SM
5	02	SS	10 12 18 14	
10	03	SS	6 7 9 11	Brown silty fine sand, with clayey sand seams, poorly graded, medium dense, moist. SM, SC
15	04	SS	6 6 8 8	Brown. Silty medium to fine sand, poorly graded, medium dense, contaminated, saturated below 9. SM
20	05	SI	8 9 15	
25	06	SI	15 16 19	
30	07	SS	13 15 16 13	
35	08	SS	10 11 15 14	
40	09	SS	20 15 10 24	
45	10	SS	15 8 2 6	Yellow brown to orange brown silty clay, little coarse to fine sand stiff medium plastic to upper 10' hard, weathered or weathered, moist AR30TT

**WESTON**

## DRILLING LOG

## **SKETCH MAP**

DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS'	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
11	SS	6 7 4 3			Yellow brn silt clay, little coarse to fine sand, stiff, medium plasticity, moist CL-CH
12	ST				Drk. gr silt clay, trace fine sand, st. FF, high plasticity, moist. CH-OH
					End of boring @ 24.0'

~~AR301117~~

# WESTERN

## DRILLING LOG

WELL NUMBER B-12 OWNER \_\_\_\_\_  
 LOCATION \_\_\_\_\_ ADDRESS SMWT, Hollywood, MD.  
 SURFACE ELEVATION \_\_\_\_\_ TOTAL DEPTH 16.0'  
 DRILLING COMPANY Harding-Hubert DRILLING METHOD HSA DATE DRILLED 7/  
 DRILLER Tim HELPER Brian, Jeff  
 LOG BY. K/A

## SKETCH MAP

NOTES

DEPTH (FEET)	GRAPHIC LOG				DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*		
0	01	SS	7 15 15 14		Brown silty medium to fine sand, poorly graded, medium dense, moist. SM
3.5	02	SS	3 3 4 4		Brown silty medium to fine sand, little clay, poorly graded, saturated below 5'.
7.0	03	SS	4 3 7 5		
04	ST				Brown coarse to fine sand, trace silt, well graded, medium dense, contaminated, saturated. SW
05	SS		8 11 11 16		
06	SI		3 2 5 7		
2.0	07	SS	2 3 4 5		Yellow brown. Silty clay, occasional coarse to fine sand, stiff, medium plasticity, moist. CL-CH
6.0	08	ST			Dark gr. silty clay, trace fine sand, stiff, high plasticity, moist. CH-OH
					End of boring @ 16.0'
					ASTM DISC

AR301118

SHEET 1 OF 1

# WESTERN

## DRILLING LOG

WELL NUMBER B-12

LOCATION \_\_\_\_\_

OWNER \_\_\_\_\_

ADDRESS Saint, Hollywood, MD.

SURFACE ELEVATION \_\_\_\_\_

TOTAL DEPTH 16.0'

WATER LEVEL ~5'

WATER LEVEL ~5'

DRILLING COMPANY Harding-Hubert

DRILLING METHOD HSA

DATE DRILLED 7/

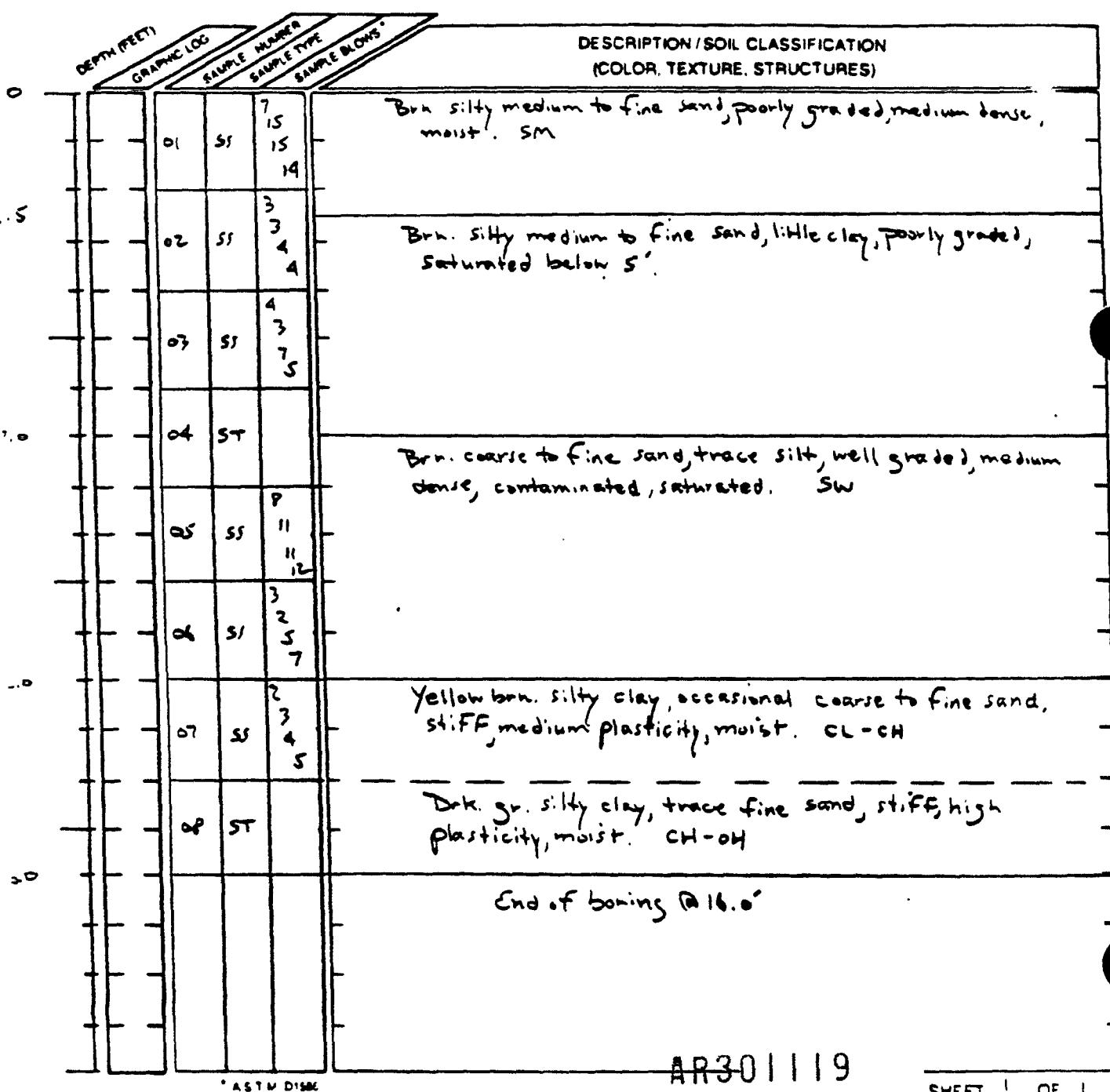
DRILLER J.m.

HELPER Brian, Jeff

LOG BY. KVA

## SKETCH MAP

NOTES



AP301119

SHEET 1 OF 1

# WASSER

## DRILLING LOG

WELL NUMBER B-13  
 LOCATION \_\_\_\_\_  
 OWNER \_\_\_\_\_  
 ADDRESS SMWT, Hollywood, MD.  
 TOTAL DEPTH 8.0'  
 SURFACE ELEVATION \_\_\_\_\_  
 WATER LEVEL ~5.5'  
 DRILLING COMPANY Harding-Hubert DRILLING METHOD HSA DATE DRILLED 7/18/86  
 DRILLER Tim HELPER Brian, Jeff  
 LOG BY: KVA

## SKETCH MAP

DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)			
					01	SS	8 10 15 10	Gr. medium to fine sand, poorly graded, medium dense, moist. SP
		02	SS	5 3 2 2				Gr. to brn. silty medium to fine sand, poorly graded, medium dense, staining, moist. SM
		03	SS	1 1				Brn. silty to clayey medium to fine sand, poorly graded, loose, slightly plastic, moist to wet. SC-SM
		04	SS	3 5 7 9				Brn. coarse to fine sand, trace silt, well graded, loose to medium dense, saturated. SW
					End of boring to 8.0'			

\* ASTM DISC

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SHEET 1 OF 1

# WADDELL

SKETCH MAP

## DRILLING LOG

WELL NUMBER SS-1 OWNER \_\_\_\_\_  
 LOCATION \_\_\_\_\_ ADDRESS SMWT, Hollywood, MD.  
 TOTAL DEPTH 20' WATER LEVEL No water  
 SURFACE ELEVATION \_\_\_\_\_  
 DRILLING COMPANY Harding-Hubert DRILLING METHOD SPT DATE DRILLED 7/21/86  
 DRILLER Tim HELPER Brian

LOG BY. KVA

NOTES

DEPTH FEET	GEOPHIC LOC				DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	S1	S2	S3	SAMPLE COUNTS	
0	01	S1	2		Brown clayey silt, 1:1 H/C fine sand, loose, topsoil moist ML
5	02	S2	2		Brown silty medium to fine sand, trace clay, poorly graded, loose, moist SM
10	03	S3	2		
15					End of boring @ 20'
20					
25					
30					
35					
40					
45					
50					
55					
60					
65					
70					
75					
80					
85					
90					
95					
100					
105					
110					
115					
120					
125					
130					
135					
140					
145					
150					
155					
160					
165					
170					
175					
180					
185					
190					
195					
200					

ASTM D-36

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SHEET 1 OF 1

# WELL LOG

## DRILLING LOG

WELL NUMBER SS-2

OWNER \_\_\_\_\_

LOCATION \_\_\_\_\_

ADDRESS Smart Hollywood, MD

SURFACE ELEVATION \_\_\_\_\_

TOTAL DEPTH 20'WATER LEVEL Y0 WaterDRILLING COMPANY Harding-ThibertDRILLING METHOD SPT

DATE

DRILLER TimDRILLED 7/21/86HELPER BrianLOG BY KVA

SKETCH MAP

NOTES

DEPTH (FT)	GRAIN SIZE	SAMPLE MARKER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)				
					1	2	3	4	5
01	SS	1							
02	SS	4							
03	SS	5							
					Brown clayey silt, medium dense, top soil, moist NL				
					Brown silty medium to fine sand, poorly graded, medium dense, moist SM				
					End of boring @ 20'				

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SHEET 1 OF 1

# WILSON

## DRILLING LOG

WELL NUMBER SS-3

LOCATION \_\_\_\_\_

OWNER \_\_\_\_\_

ADDRESS SMIT, Hollywood MDTOTAL DEPTH 20'

SURFACE ELEVATION \_\_\_\_\_

WATER LEVEL No water

DRILLING

COMPANY Harding-Hubert DRILLING METHOD SPT DATE 7/21/86DRILLER TimHELPER BrianLOG BY KVA

## SKETCH MAP

## NOTES

DEPTH (FEET)	GRAPHIC LOG				DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE MARK	SAMPLE TYPE	SAMPLE BLOWS	TEST	
01	SS	2	4		Dark brown color to ~14'. medium to fine sand, poorly graded, loose, topsoil, moist ... 50-55
02	SS	4	10		
03	SS	13	13		Brown silty medium to fine sand, poorly graded, medium dense, moist 3m
					End of boring at 20'

AR301123

SHEET 1 OF 1

卷之三

## **DRILLING LOG**

WELL NUMBER 55-4  
LOCATION

OWNER \_\_\_\_\_  
ADDRESS Smart, Holly Woods, MD

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**SURFACE ELEVATION**

TOTAL DEPTH 20'  
WATER LEVEL No water

DRILLING COMPANY Hawkins-Hubert DRILLER Tim MET

ING DD STT DATE  
OD DRILLED 7/21/86  
HELPER Brian

LOG BY. KVA

### **SKETCH MAP**

## **NOTES**

DEPTH FEET	GRAPHIC LOC.	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
01	SS	2			Dark brn. silty medium to fine sand, trace clay, poorly graded, loamy, topsoil moist Sm
02	SS	2			
03	SS	4			Brown. silty clay, little medium to fine sand, stiff, low plasticity, moist CL
		S			End of boring at 20'

~~AR30+124~~

~~REF ID: A~~

# WILSON

SKETCH MAP

## DRILLING LOG

WELL NUMBER SS-5 OWNER \_\_\_\_\_  
LOCATION \_\_\_\_\_ ADDRESS SMWT, Hollywood, MD  
TOTAL DEPTH 25'  
SURFACE ELEVATION \_\_\_\_\_ WATER LEVEL No water  
DRILLING COMPANY Harding-Hubert DRILLING METHOD SPT DATE 7/7/86  
DRILLER Tim HELPER Brian  
LOG BY. KVA

NOTES

DEPTH (FEET)	GRAPHIC LOG			DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE B.C.W.S.	
0	05	5		
12	11			Dark brown silty medium to fine sand, trace clay, poorly graded, medium dense, top soil moist sm
12	12			Brown silty medium to fine sand, poorly graded, medium dense, moist sm
15	13	55		
				End of boring (d 2.0')

ASTM D-573

AR301125

SHEET 1 OF 1

# WISCONSIN

## DRILLING LOG

WELL NUMBER SS-6 OWNER \_\_\_\_\_  
LOCATION \_\_\_\_\_ ADDRESS 5901 Hwy 100, Madison, WI  
TOTAL DEPTH 2.0' WATER LEVEL No water  
SURFACE ELEVATION \_\_\_\_\_  
DRILLING COMPANY Harding Hubert DRILLING METHOD SPT DATE DRILLED 7/2/86  
DRILLER Tim HELPER Brian  
LOG BY KVA

## SKETCH MAP

### NOTES

DEPTH (FT)	GEOPHYSICAL LOG			DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	
0	01	SS	5	Dark brownish medium to fine sand, trace clay, poorly graded, medium dense / topsoil, moist, SM
0.2		25	20	
0.4		40		
0.5	03	SS	20	Brownish medium to fine sand, poorly graded dense, moist, SM
				End of boring @ 2.0'

AR301126

SET 1 OF 1

# WESTREN

## DRILLING LOG

WELL NUMBER P-1  
 LOCATION \_\_\_\_\_  
 SURFACE ELEVATION \_\_\_\_\_  
 DRILLING COMPANY Baw-Co Excav.  
 DRILLER \_\_\_\_\_  
 LOG BY KVA, JEV

OWNER \_\_\_\_\_  
 ADDRESS GWT, Hollywood, MD  
 TOTAL DEPTH 150'  
 WATER LEVEL No water  
 DRILLING METHOD Backhoe  
 DATE DRILLED 6/23/86  
 HELPER \_\_\_\_\_

### SKETCH MAP

#### NOTES

DEPTH (FEET)	GRANIC LOC	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
35	01				Brown and blk silty coarse to fine gravel, some coarse to fine sand, fill, dry Gm
	02				
5	03				Orange br. silty to clayey fine sand, poorly graded, moist Sm-Sm
	04				Brown fine sand little silt, poorly graded moist SP-Sm
	05				Brown silty to clayey sand with silty sand seams, poorly graded moist Sc-Sm
	06				Rust orange silty to clayey fine sand, poorly graded, moist Sc-Sm
	07				Orange coarse to fine sand little silt, poorly graded, moist Sh-Sm
5	08				Rust orange and white silty clay to clayey sand, moist CL-Sm
	09				Bottom of test pit @ 15.0'

# WESTERN

## DRILLING LOG

WELL NUMBER P-2

LOCATION \_\_\_\_\_

OWNER \_\_\_\_\_

ADDRESS SWEET HOME, MD

SURFACE ELEVATION \_\_\_\_\_

TOTAL DEPTH 15.0'

WATER LEVEL 11' water

DRILLING COMPANY Baw-Co Excav

DRILLING METHOD Backhoe

DATE

6/23/86

DRILLER \_\_\_\_\_

HELPER \_\_\_\_\_

LOG BY KVA, JEV

## SKETCH MAP

## NOTES

DEPTH FEET	GEOPAC LOG				DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOW'S	TEST	
4.0	D1				Light tan silt and fine sand, poorly graded, damp m.L
	D2				Dark clayey silt, some coarse to fine sand, poorly graded, moist m.L
4.5	D3				
5.0	D4				Rust brown to orange and white silty fine sand, poorly graded, moist S.M
	D5				
5.5	D6				
6.0	D7				Rust orange and white silty to clayey coarse to fine sand, moist S.C-S.M
	D8				
6.5					
7.0					
7.5					
8.0					
8.5					
9.0					
9.5					
10.0					
10.5					
11.0					
11.5					
12.0					
12.5					
13.0					
13.5					
14.0					
14.5					
15.0					Bottom of test pit @ 15.0'

AR301128

SHEET 1 OF 1

# WESTERN

## DRILLING LOG

WELL NUMBER P-3

LOCATION \_\_\_\_\_

OWNER \_\_\_\_\_

ADDRESS SWAT, Hollywood, MD.

TOTAL DEPTH 15.0'

SURFACE ELEVATION \_\_\_\_\_

WATER LEVEL No water

DRILLING COMPANY Bow-CO CYCLOV

DRILLING METHOD Backhoe

DATE DRILLED

6/23/86

DRILLER \_\_\_\_\_

HELPER \_\_\_\_\_

LOG BY KVA, JEV

## SKETCH MAP

## NOTES

DEPTH (FEET)	GRANITE LOC.	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
0					
0.1					
0.2					
0.3					
0.4					
0.5					
0.6					
0.7					
0.8					
0.9					
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5.5					white silty clay, some coarse to fine sand, medium plasticity, moist CL
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15.0					Bottom of test pit @ 15.0'

AR301129

**WESGEN**

## DRILLING LOG

WELL NUMBER P-4

**LOCATION**

**OWNER** \_\_\_\_\_

ADDRESS SW 17, Hollywood, Md.

**SURFACE ELEVATION**

TOTAL DEPTH 15'

WATER LEVEL No water

## **DRILLING**

ING- DATE 10-10-10

COMPANY DOW-CO EXCO/MET  
DRILLER

DD TUCKEE DRILLED ~~bore~~  
HELPER \_\_\_\_\_

LOG BY. Tardone, Vann

## **SKETCH MAP**

**NOTES**

DEPTH (FEET)	GRAIN SIZE	SAND:CL. NUMBER	SAND:TYPE	SAND:RATIO*	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	
					D1	D2
5.5					Orange and white sandy clay, medium plasticity, moist CL	
					Light orange to orange coarse to fine sandy silty clay, medium plasticity, moist CL-SL	
0						
					Red and white medium to coarse sandy silty clay, medium plasticity, moist CL-SL	
6						
07, 08					Red and white silty clay with red fine sand seams, medium plasticity, moist CL, SP	
					BOTTOM OF TEST PIT @ 15.0'	

AR301130

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# WESTERN

## DRILLING LOG

WELL NUMBER P-5  
 LOCATION \_\_\_\_\_  
 SURFACE ELEVATION \_\_\_\_\_  
 DRILLING COMPANY Bau-Co Excav DRILLING METHOD Backhoe DATE 6/24/86  
 DRILLER \_\_\_\_\_ HELPER \_\_\_\_\_  
 LOG BY Terdene, Vann

### SKETCH MAP

### NOTES

DEPTH (FT)	GRAVE LOC.	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
0.1					Brown sandy to gravelly silty clay, friable SC-GL
0.2					Orange to dark gray Sandy silty clay, medium plasticity, dry CL-SC
0.3					Light brown sandy silty clay, medium plasticity moist LL SC
0.4					
0.5					Light brown clayey sand with white clayey sand seams, moist SC
0.6					Red to orange Coarse to medium clayey sand, medium plasticity, moist SC
0.7, 0.8					Bottom of test pit @ 15.0'

AR301131

# WESTERN

## DRILLING LOG

WELL NUMBER P-6 OWNER \_\_\_\_\_  
 LOCATION \_\_\_\_\_ ADDRESS Smart, Hollywood, MD  
 SURFACE ELEVATION \_\_\_\_\_ TOTAL DEPTH 15.0'  
 DRILLING COMPANY Baw-Co Excav. DRILLING METHOD Backhoe DATE DRILLED 6/24/86  
 DRILLER \_\_\_\_\_ HELPER \_\_\_\_\_  
 LOG BY. La Costa, Tortoise

### SKETCH MAP

### NOTES

DEPTH FEET	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
0.1					Light brown tan fine sand, trace silt, poorly graded, dry SP
0.2					Red to brown fine sand, trace silt poorly graded, very, SP
0.3					
0.4					
0.5					
0.6					Orange brown medium sand, trace silt, poorly graded, damp to moist, SP
0.7					White medium sand with orange brown medium to fine sand seams, trace silt, poorly graded, moist. SP
0.8					Orange to rust medium sand, poorly graded, moist SP
					Bottom of test pit @ 15.0'

AR301132

# WESTERN

## DRILLING LOG

WELL NUMBER P-7  
 LOCATION \_\_\_\_\_  
 SURFACE ELEVATION \_\_\_\_\_  
 DRILLING COMPANY Bon-Ce Excav  
 DRILLER \_\_\_\_\_  
 LOG BY La Costa, Tardone

OWNER \_\_\_\_\_  
 ADDRESS SWBT, Hollywood, MD  
 TOTAL DEPTH 15.0'  
 WATER LEVEL No water  
 DRILLING METHOD Backhoe  
 HELPER \_\_\_\_\_  
 DATE DRILLED 5/25/86

## SKETCH MAP

### NOTES

DEPTH (FT)	GRAVE LOC.	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)		
0					Tan fine sand, Tr. S.H., poorly graded, dry ... ST		
0.2					Orange brown fine sand, trace silt, poorly graded, dry. SP		
0.3					Orange brown medium to fine sand, trace silt, trace clay, poorly graded, damp SP		
0.4							
0.5					Orange brown clayey medium to fine sand, little silt, medium plasticity, damp SC		
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# WESTGEN

## DRILLING LOG

WELL NUMBER P-8  
 LOCATION \_\_\_\_\_  
 TOTAL DEPTH 15.0'  
 SURFACE ELEVATION \_\_\_\_\_  
 WATER LEVEL No water  
 DRILLING COMPANY Burn Co Excav. DRILLING METHOD Backhoe DATE 6/25/86  
 DRILLER \_\_\_\_\_ HELPER \_\_\_\_\_  
 LOG BY La Costa,

## SKETCH MAP

NOTES

DEPTH FEET	GRAIN/C.L.C.	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOW	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
0					Br. fine sand, trace silt, wood chips, dry, f. II SP
.					Dark gray fine sand, stained, poorly graded, dry SP
.					Tan to brn. fine sand, trace silt, trace clay, poorly graded, dry SP
.					Orange brn. medium to fine sand, some clay, trace silt, medium plasticity, damp SC
.					Light gray silty clay, some fine sand, medium to high plasticity, damp CL-CH
.					Tan to light orange brn. fine sand, poorly graded, damp SP
.					Orange brn. clayey sand, trace silt, poorly graded, moist. SC
15.0					Bottom of test pit @ 15.0'

AR301134

# WESTERN

## DRILLING LOG

WELL NUMBER J-7  
 LOCATION \_\_\_\_\_  
 SURFACE ELEVATION \_\_\_\_\_  
 DRILLING COMPANY Baw-C. Excav. DRILLING METHOD Bulkhead DATE DRILLED 6/25/86  
 DRILLER \_\_\_\_\_  
 LOG BY La Costa, Terrene

## SKETCH MAP

### NOTES

DEPTH (FT)	GRAIN/CLOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	
					0'	1'
0'					Tan fine sand, trace silt, poorly graded, wood chips, dry, f. ill SP	
02						
03						
04					Tan to brown fine sand, trace silt, trace clay, poorly graded, dry SP	
05					Orange brown medium to fine sand, trace silt, trace clay, poorly graded, damp. SP	
06					Light gray silty clay, trace fine sand, medium to high plasticity, damp. CL-CH	
07					Tan to beige medium to fine sand, trace clay, trace silt, poorly graded, damp. SP	
08					Light gray and red brown silty clay, medium to high plasticity, damp. CL-CH	
09					Orange brown medium to fine sand, some silt, trace clay, poorly graded, damp. SM	
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**WESTERN**

## **DRILLING LOG**

WELL NUMBER P-10

**OWNER** \_\_\_\_\_

**LOCATION** \_\_\_\_\_

ADDRESS SW 1st, Hollywood MD.

---

TOTAL DEPTH 15.0

**SURFACE ELEVATION** \_\_\_\_\_

WATER LEVEL 100

## **DRILLING**

ING \_\_\_\_\_ DATE \_\_\_\_\_

LOG BY: La Costa Van Allen

### **SKETCH MAP**

DEPTH (FEET)	GRAVE LOC.	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOW*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	
					01	02
01					Brown silty medium to fine sand, some wood chips, dry f.i. 5m	
02						
03					Rust orange to brown. Silty medium to fine sand, poorly graded, dry to damp 5m	
04					Brown silty to clayey medium to fine sand, poorly graded, moist 5m	
05					Brown silty medium to fine sand, poorly graded, wet 5m	
06					Dark brown to dark red silty medium to fine sand, cemented, staining, wet 5m	
07					Light brown to brown, medium to fine sand, little silt, poorly graded, saturated. SP-5m	
					Bottom of test pit @ 10.0'	

AR301136

$$S = \{S^1, S^2, \dots\}$$

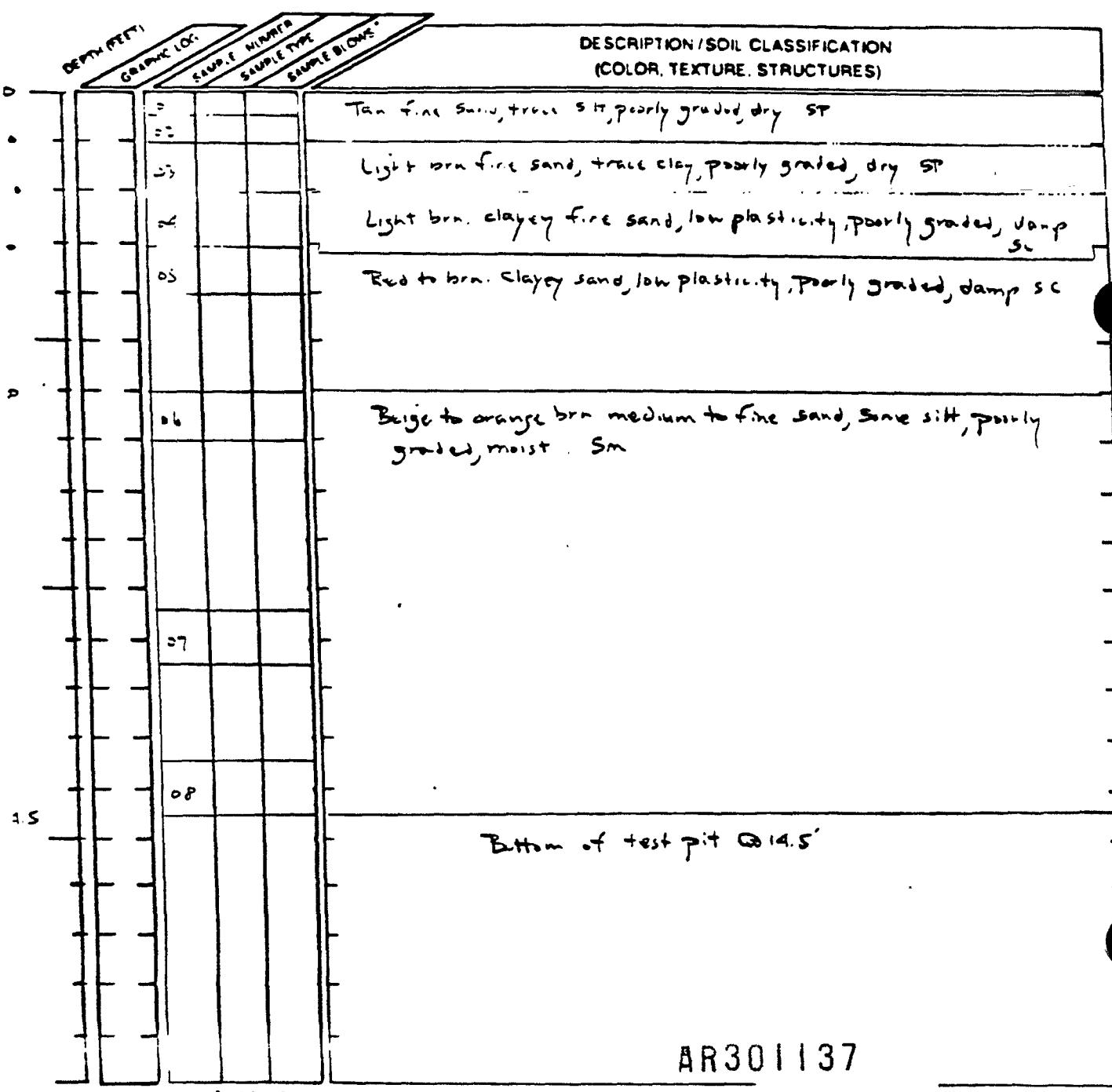
# WESTGEN

## DRILLING LOG

WELL NUMBER P-11 OWNER \_\_\_\_\_  
 LOCATION \_\_\_\_\_ ADDRESS Smart, Hollywood, MD  
 SURFACE ELEVATION \_\_\_\_\_ TOTAL DEPTH 14.5'  
 DRILLING COMPANY Burr-C. Exxer DRILLING METHOD backhoe DATE DRILLED 6/25/84  
 DRILLER \_\_\_\_\_ HELPER \_\_\_\_\_  
 LOG BY La Costa, Tardone

### SKETCH MAP

### NOTES



# WESTREN

## DRILLING LOG

WELL NUMBER P-12 OWNER \_\_\_\_\_  
 LOCATION \_\_\_\_\_ ADDRESS Saint, Hollywood, MD.  
 SURFACE ELEVATION \_\_\_\_\_ TOTAL DEPTH 15'  
 DRILLING COMPANY Ban. Co. EXCAV DRILLING METHOD Jackham DATE DRILLED 6/26/86  
 DRILLER \_\_\_\_\_ HELPER \_\_\_\_\_  
 LOG BY La Costa, Tardine

## SKETCH MAP

### NOTES

DEPTH (FT.)	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)		
	GRAIN LOC.	SAMPLE NUMBER	SAMPLE TYPE
01			Light brown silty fine sand, wood chips, f:ll, dry Sm
02			
03			
04			Orange brown fine sand, some clay, trace silt, medium plasticity, damp Sc
05			
06			Orange brown silty to clayey fine sand, low plasticity, damp Sc-Sm
07			Light gray to red orange clayey fine sand, medium plasticity, damp Sc
08			Orange brown and light gray sandy clay, medium to high plasticity, moist. CL-SC
			Bottom of test pit @ 15'

AR301138

# WESTON

## DRILLING LOG

WELL NUMBER P-13  
 LOCATION \_\_\_\_\_  
 SURFACE ELEVATION \_\_\_\_\_  
 DRILLING COMPANY Bow Co EAGY DRILLING METHOD Backhoe DATE DRILLED \_\_\_\_\_  
 DRILLER \_\_\_\_\_ HELPER \_\_\_\_\_  
 LOG BY La Costa, Tordag

### SKETCH MAP

NOTES

DEPTH (FT)	DEPTH (M)	SAMPLE LOC.	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWNT	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
0	0					Brown to gray fine sand and silt, wood chips, debris, fill, dry SP-ML
0.2	0.06					
0.3	0.09					Orange brown silty fine sand, trace c.s., faint gritted, damp SM
0.4	0.12					Orange brown medium to fine sand, some s.s.t., debris, damp SM
0.5	0.15					Brown silty clay with light gray silty clay lenses, high plasticity, moist CL-CH
1.5	0.45					
0.6	0.18					Brown, silty to clayey fine sand, poorly graded, low plasticity, moist SC-SM
0.7	0.21					Light gray and red orange fine sand, little s.s.t., low plasticity, moist SP-SM
0.8	0.24					Light gray and red orange sandy silty clay, medium plasticity, mottled, moist. CL-SC
						Bottom of test pit @ 15.0'

AR301139

# WESTERN

## DRILLING LOG

WELL NUMBER P-14  
LOCATION \_\_\_\_\_

OWNER \_\_\_\_\_  
ADDRESS SWEAT, Hollywood, MD

#### **SURFACE ELEVATION**

TOTAL DEPTH 120'  
WATER LEVEL No water

DRILLING COMPANY Paw-Co Excav DRILLER MET

DRILLING DATE  
METHOD Backw. DRILLED 6/26/86  
HELPER

LOG BY La Costa, Tordone

## **SKETCH MAP**

DEPTH (FEET)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
0.1					Light brown silty fine sand, roots, wood debris, poorly graded, dry 5m
0.2					
0.3					
0.4					Orange brown silty fine sand, trace clay, poorly graded, dry 5m
0.5					
0.6					Pale gray silty clay and fine sand, poorly graded, dry. CL-SC
0.7					Pale gray and orange red silty clay, some fine sand, mottles, moist. CL
0.8					Orange red to brown medium to fine sand, and silt, poorly graded, moist SP-ML
					White medium to fine sand and orange brown fine sand, poorly graded, moist. SP
					Bottom of test pit @ 12.0'

AR301140

SET 1 OF 1

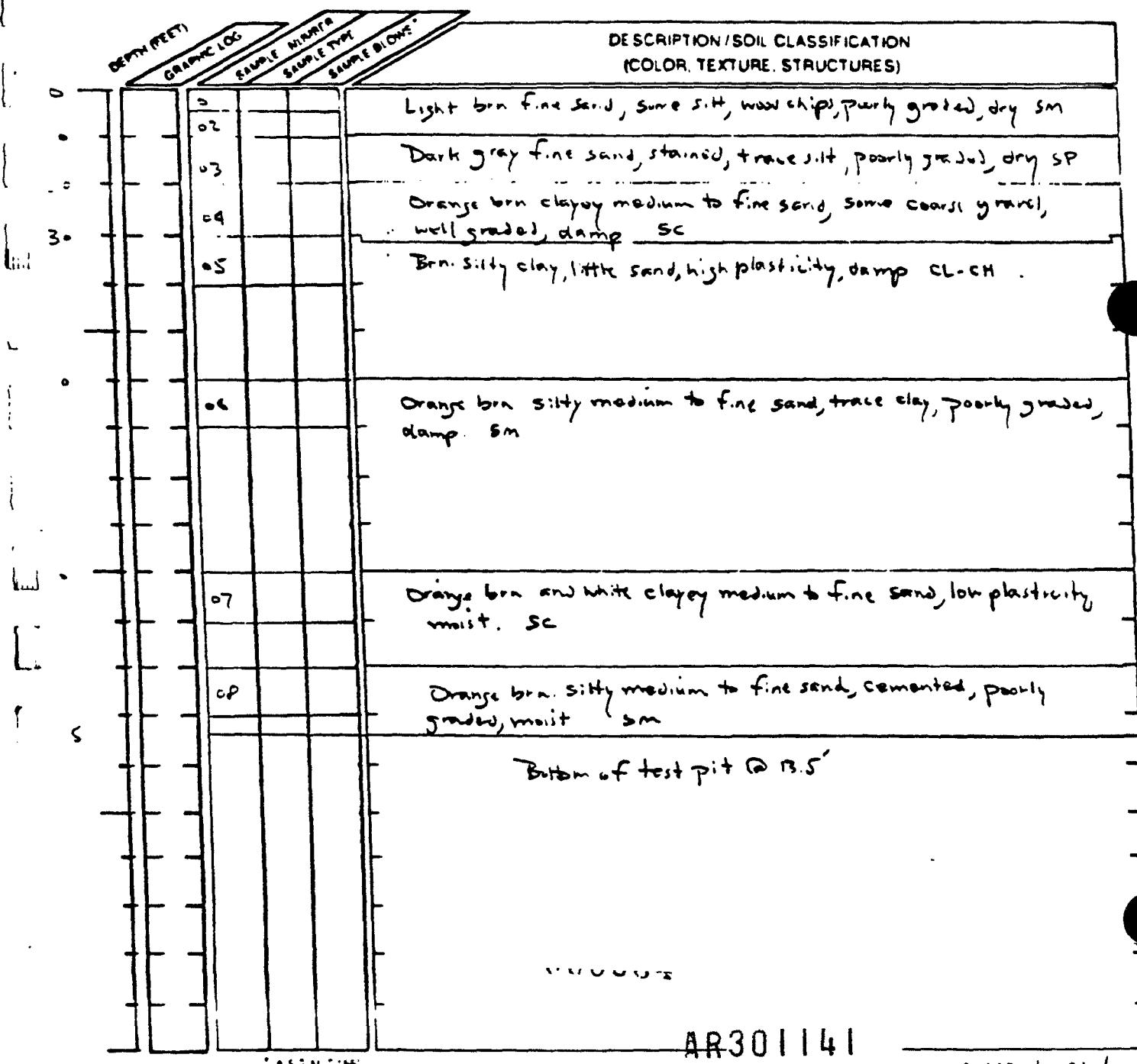
# WESTREN

## DRILLING LOG

WELL NUMBER P-15  
 LOCATION \_\_\_\_\_  
 SURFACE ELEVATION \_\_\_\_\_  
 DRILLING COMPANY Ban-Co Excav. DRILLING METHOD Backhoe DATE DRILLED 6/26/06  
 DRILLER \_\_\_\_\_ HELPER \_\_\_\_\_  
 LOG BY. La Costa, Tordone

## SKETCH MAP

NOTES



# WILSON

## DRILLING LOG

WELL NUMBER P-16  
 LOCATION \_\_\_\_\_  
 SURFACE ELEVATION \_\_\_\_\_  
 DRILLING COMPANY Bow-Co Excav. DRILLING METHOD Backhoe DATE DRILLED 6/27/86  
 DRILLER \_\_\_\_\_ HELPER \_\_\_\_\_  
 LOG BY La Costa, Tardone

## SKETCH MAP

### NOTES

DEPTH (FT)	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	
					01	02
0.1						
0.2						
0.3						
0.4						
0.5						
0.6						
5					Bottom of test pit @ 6.5'	

\* AETN C-50  
 - Br s 4, - ac soi. wood chips poorly graded, dry Sm  
 Orange brown fine sand, little s.s., poorly graded SP-SM  
 Gray to dark gray silty medium to fine sand, poorly graded moist to saturated Sm

AR301142

**WESSEN**

## DRILLING LOG

**SKETCH MAP**

AR301143

SHEET 1 OF 1

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## **DRILLING LOG**

WELL NUMBER P-18

**LOCATION**

**OWNER**

**ADDRESS** SWEET, HOLLYWOOD, MD

## **SURFACE ELEVATION**

TOTAL DEPTH 35'

WATER LEVEL 3.5

DRILLING -

## DRILLING METHOD Backhoe

DRILLING  
METHOD Backhoe

DATE  
REBILLED 5/27/86

LOG BY: LaCoste, Tardore

## **SKETCH MAP**

**NOTES**

DEPTH (FT.)	BRAKE LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
01					
02					Orange brn. medium to fine sand, trace silt, trace clay, poorly graded, damp. SP
03					Orange brn. silty, medium to fine sand, poorly graded, damp. Sm
04					Orange brn. Coarse to medium sand and silt, poorly graded, moist. Sp-M
05					Bottom of test pit @ 3.5'

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## DRILLING LOG

WELL NUMBER F-19  
LOCATION \_\_\_\_\_

OWNER \_\_\_\_\_  
ADDRESS Smart, Hollywood, MD

SURFACE ELEVATION \_\_\_\_\_ TOTAL DEPTH 60'  
WATER LEVEL 6.5'

DRILLING COMPANY Bon-Co Excav. DRILLING METHOD Backhoe DATE DRILLED 6/10/86  
DRILLER \_\_\_\_\_ HELPER \_\_\_\_\_

LOG BY Vann Tardone

## **SKETCH MAP**

**NOTES**

DEPTH (FT)	GRAIN LOG	SAMPLE NUMBER	SAMPLE TYPE	BURG BLOWS*	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
01					Brown sandy clay with red lamination, moist CL-SC
02					
03					Brown silty clay, trace silt, medium plasticity, moist CL
04					Brown silty clay, some medium to coarse sand, medium to high plasticity, moist to wet CL
05					Light gray sandy silty clay, trace sand, medium to high plasticity, wet CL
06					Light gray sand with sandy clay lenses, possible iron staining, saturated SP, SC
					Bottom of test pit @ 6.0'

AR301145

# WILSON

## DRILLING LOG

WELL NUMBER P-20  
 LOCATION \_\_\_\_\_  
 SURFACE ELEVATION \_\_\_\_\_  
 DRILLING COMPANY Burn-W Excav DRILLING METHOD Backhoe DATE DRILLED 6/28/86  
 DRILLER \_\_\_\_\_ HELPER \_\_\_\_\_  
 LOG BY Vann, Tordun

## SKETCH MAP

## NOTES

DEPTH (FT)	GRAIN SIZE	SAMPLE LOC.	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOCKS	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	
						0'	13.0'
0'						Light brn Sandy clay and coarse to fine gravel, well graded, dry, f.i. SC-GC	
±2							
±3							
±4						White Sandy clay, high plasticity, some mottling or iron staining, moist. CL-SC	
±5							
±6						Light gray, red and white silty clay, high plasticity, some mottling, dry CL-CH	
±7						Brown silty clay, with coarse sand, medium plasticity, damp. CL	
±8						Tan to brn. Coarse sand, poorly graded, moist SP	
±9						Brown and white coarse sand, trace clay, poorly graded, moist. SP	
±10						Brown and white coarse sand with light gray mottled clay lenses, moist. SP, CL	
						Bottom of test pit at 13.0'	

AR301146

# WILSON

## DRILLING LOG

WELL NUMBER P-21

OWNER

LOCATION

ADDRESS Smart, Hollywood, MD

TOTAL DEPTH 15.0'

SURFACE ELEVATION

WATER LEVEL No water

DRILLING COMPANY Bill Co & Clark

DRILLING METHOD Backhoe

DATE DRILLED 7/1/86

DRILLER

HELPER

LOG BY Vann, Theodore

## SKETCH MAP

NOTES

DEPTH (FT)	GRAIN SIZE	SAMPLE MARKS	SAMPLE TYPE	SAMPLE BLOWS*	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	
					01	02
5					Dark brown silty clay with medium to fine sand, some tree roots, medium plasticity moist. CL-SC	
					03	Light brown silty clay with fine sand, some tree roots, medium plasticity, moist. CL
					04	Orange brown silty clay with fine sand, medium plasticity, moist. CL
					05	Orange brown to red silty clay, with white silty clay lenses, trace fine sand, medium to high plasticity, moist. CL-CH
					06	
					07	White silty clay with orange medium to fine sand, some lamination, medium to high plasticity, moist. CL-CH, SP
					08	Orange medium to fine sand, with white silty clay seams, poorly graded, moist. SP, CL-CH
						Orange silty to clayey medium sand, poorly graded, medium plasticity, moist. SC-SM
						Bottom of test pit @ 15.0'

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## DRILLING LOG

WELL NUMBER P-22

**OWNER**

**LOCATION**

ADDRESS SWEET, Hollywood, MD.

### **SURFACE ELEVATION**

TOTAL DEPTH 15.0'

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10-16

DATE

## DRILLING COMPANY

ING.  
OD Backn

DATE  
DEBILLED 7/1/86

LOG BY Yann Tardieu

## **SKETCH MAP**

**NOTES**

DEPTH FEET	GRAIN LOC.	SAMPLE NUMBER	SAMPLE TYPE	BURDE BLOWT.	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
01					Dark brown fine sand, silty clay, medium plastic + moist CL-SC
02					
03					Orange silty clay and medium to fine sand, medium plasticity, moist ----
04					
05					
06					Orange silty sand, little clay, poorly graded, moist Sm
07					Yellow to yellow orange medium sand, little clay, slightly plastic, moist ST-SC
08					
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# WISKEEN

## DRILLING LOG

WELL NUMBER P-23

LOCATION \_\_\_\_\_

OWNER \_\_\_\_\_

ADDRESS Smnt, Hollywood, MD.

SURFACE ELEVATION \_\_\_\_\_

TOTAL DEPTH 9.0'

WATER LEVEL 9.0'

DRILLING COMPANY Baw Co. Excav

DRILLING METHOD Backhoe

DATE DRILLED 7/1/86

DRILLER \_\_\_\_\_

HELPER \_\_\_\_\_

LOG BY Venn Tordone

## SKETCH MAP

## NOTES

DEPTH FEET	GRAPHIC LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BELOW	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)				
					01	02	03	04	05
0.0					Dark brown silty clay, some sand, low plasticity, damp to moist. CL				
0.1					Light brown medium to fine sand and silty clay, medium plasticity, moist. SC				
0.2					Orange silty clay, some coarse to medium sand, low plasticity, moist. CL				
0.3									
0.4									
0.5									
0.6					Orange, yellow and white silty clay, some coarse to medium sand, low plasticity, moist. CL				
0.7					Orange brown clayey silty sand, low plasticity, poorly graded, wet to saturated. SC-SM				
					Bottom of test p.t. @ 9.0'				

# WILKIN

## DRILLING LOG

WELL NUMBER P-24  
 LOCATION \_\_\_\_\_  
 SURFACE ELEVATION \_\_\_\_\_  
 DRILLING COMPANY B&W - Co Excav. DRILLING METHOD Pushbar DATE DRILLED 7/1/86  
 DRILLER \_\_\_\_\_ HELPER \_\_\_\_\_  
 LOG BY Vann, Tordone

### SKETCH MAP

#### NOTES

DEPTH FEET	DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)			
	GRAIN SIZE LOG	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS'
01				Dark brn, black and orange silty coarse to medium sand, poorly graded, damp. Sm
02				
03				Orange sand, little silt, well graded, damp
04				Orange brn and pink silty clay, with sand seams, medium plasticity, damp. CL, SP
05				Olive green to orange silty clay and fine sand, trace silt, high plasticity, mottled, damp. CH-SC
06				Pale olive to brn. silty medium to fine sand, poorly graded, some staining or contamination, wet. Sm
07				Bk. coarse sand, little silt, with clay seams, poorly graded, staining or contamination present, wet. SP-SM, CH
08				Olive brn. Silty coarse sand w/ blue to black clay seams, poorly graded, wet. SP, CH
				Bottom of test pit @ 15.0'

AR301150

**APPENDIX F**  
**CHEMICAL DATA**

**AR301151**

Attached for your reference is the hazardous substances list (HSL) volatile organic compounds and the HSL semivolatile compounds separated into base/neutral and acid extractable fractions.

VOLATILE ORGANIC COMPOUNDS	ACID EXTRACTABLES	BASE/NEUTRALS
CHLOROMETHANE	PHENOL	NAPHTHALENE
BROMOMETHANE	2-METHYLPHENOL	2-METHYLNAPHTHALENE
VINYL CHLORIDE	4-METHYLPHENOL	ACENAPHTHENE
CHLOROETHANE	2,4-DIMETHYLPHENOL	DIBENZOFURAN
METHYLENE CHLORIDE	2,4,5-TRICHLOROPHENOL	FLUORENE
ACETONE	2,4,6-TRICHLOROPHENOL	PHENANTHRENE
CARBON DISULFIDE	2,4-DICHLOROPHENOL	ANTHRACENE
1,1-DICHLOROETHENE	2,4-DINITROPHENOL	FLUORANTHENE
1,1-DICHLOROETHANE	2-CHLOROPHENOL	PYRENE
TRANS-1,2-DICHLOROETHENE	2-NITROPHENOL	DI-n-BUTYLPHthalate
CHLOROFORM	4,6-DINITRO-2-METHYLPHENOL	BENZO(a)ANTHRACENE
1,2-DICHLOROETHANE	4-CHLORO-3-METHYLPHENOL	INDENO(1,2,3-cd)PYRENE
2-BUTANONE	4-NITROPHENOL	DIBENZO(a,h)ANTHRACENE
1,1,1-TRICHLOROETHANE	BENZOIC ACID	BENZO(g,h,i)PERYLENE
CARBON TETRACHLORIDE	PENTACHLOROPHENOL	CHRYSENE
VINYL ACETATE		BENZO(b)FLUORANTHENE
BROMODICHLOROMETHANE		BENZO(k)FLUORANTHENE
1,2-DICHLOROPROPANE		BENZO(a)PYRENE
TRANS-1,3-DICHLOROPROPANE		1,2,4-TRICHLOROBENZENE
TRICHLOROETHENE		1,2-DICHLOROBENZENE
DIBROMOCHLOROMETHANE		1,3-DICHLOROBENZENE
1,1,2-TRICHLOROETHANE		1,4-DICHLOROBENZENE
BENZENE		2,4-DINITROTOLUENE
CIS-1,3-DICHLOROPROPENE		2,6-DINITROTOLUENE
2-CHLOROETHYL VINYLETHER		2-CHLORONAPHTHALENE
BROMOFORM		2-NITROANILINE
4-METHYL-2-PENTANONE		3,3-DICHLOROBENZIDINE
2-HEXANONE		3-NITROANILINE
TETRACHLOROETHENE		4-BROMOPHENYL PHENYLETHER
1,1,2,2-TETRACHLOROETHANE		4-CHLORANILINE
TOLUENE		4-CHLOROPHENYL PHENYLETHER
CHLOROBENZENE		4-NITROANILINE
ETHYLBENZENE		ACENAPHTHYLENE
STYRENE		BENZYL ALCOHOL
TOTAL XYLEMES		BIS-2-CHLOROETHOXY METHANE
		BIS-2-CHLOROETHYL ETHER
		BIS-2-CHLOROISOPROPYL ETHER
		BIS-2-ETHYLHEXYL PHthalate
		BUTYLBENZYLPHthalate
		DI-n-OCTYL PHthalate
		DIETHYLPHthalate
		DIMETHYL PHthalate
		HEXAChlorOBENZENE
		HEXAChlorOBUTADIENE
		HEXAChlorOCYCLOPENTADIENE
		HEXAChloroETHANE
		ISOPHORONE
		N-NITROSO-DI-n-PROPYLAMINE
		N-NITROSDIPHENYLAMINE
		NITROBENZENE

AR301152

The volatile organic analyses results reported in this package are qualified for engineering purposes only. The laboratory BFB tune for OVA analyses did not follow the specific CLP protocol. The GC/MS system must be hardware tuned to meet specified abundance criteria for a maximum of a 50 ng injection of BFB (SOW 785, page E-16, Section 1.3). It is not permissible to co-inject the BFB for this tune requirement with the daily calibration standard because BFB is in this standard as a surrogate at a concentration of 50 ng/mL, which is 250 ng, on a column.

The specific impact (if any) on data quality resulting from this tuning procedure could not be determined, even after consultation with the instrument manufacturer and EPA personnel. As such, the data were qualified as usable for engineering purposes only.

AR301153

THE SAMPLE AND VITRIFIED BEADS

AR301154

1992 SAMPLE AND VITRIFICATION RESULTS

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#### SURFACE WATER QUALITY AND RESULTS

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## STANDEWATER ANALYSIS RESULTS

SAMPLE NUMBER	DILUTION FACTOR (WPA)	DILUTION FACTOR (RPA)	STANDEWATER ANALYSIS RESULTS								
			T24-010	T25-010	T26-010	T28-010	UC-010	UDS-010	UDS-010	UDS-010	UDS-010
DESCRIPTION				Field Dsp	Field Dsp	Dsp UD-010	Field Dsp				
Fluorene	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
4-Nitroaniline	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
4,6-Dinitro-2-Methylphenol	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
N,N-Dimethylbenzylamine	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
4-(E)-Decylphenylether	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Hexachlorobutene	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Pentaethoxybenzene	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Phenanthrene	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bithiophene	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Di-n-Betylphthalate	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Fluoranthene	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Pyrene	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Butylbenzylphthalate	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
3,5-Dichlorodiphenylmethane	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Benzo(a)anthracene	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
1,3-Ethylidene-1,2-dihydro-1H-Pthalate	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Chrysene	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Di-n-Octyl Phthalate	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Benzo(b)fluoranthene	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Benzo(a)pyrene	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indeno(1,2,3- <i>cd</i> )Perylene	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Dimethylbenzanthracene	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Benzo( <i>c</i> , <i>g</i> , <i>j</i> )Perylene	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Alatacum	50.0	1	175.0	100.0	100.0	127.0	110.0	160.0	110.0	305.0	321.0
Uranium	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Copper	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Iron	291.0	1	607.0	50.0	50.0	116.0	128.0	41.0	240.0	125.0	240.0
Lead	12.0	12.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Mercury	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Zinc	35.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
TOTAL ORGANIC CARBON	7500	7500	1000	1000	1000	2100	2100	3600	10200	2600	2600
OIL AND GREASE	500.0	0	4500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0
CHLORINE, OZONE DEMAND	62000	45000	42000	10000	10000	24000	10000	34000	10000	56000	56000
BIOLOGICAL OXYGEN DEMAND	40000	1	72000	1	10000	10000	10000	4000	10000	20000	20000
TOTAL SUSPENDED SOLIDS	60000	1	72000	1	10000	10000	10000	38000	10000	19000	19000
TOTAL KELGIN NITROGEN	435.0	7500.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	2000	2000
NITRATE NITROGEN	740	520	610	610	610	410	410	1000	1000	1600	1600
PHOSPHORUS	29000	1	16000	1	24000	24000	24000	370	370	470	470
ACIDITY	6620.0	1	16200.0	1	20000	20000	20000	3000	3000	35000	35000
ALKALINITY											

AR301159

AR301160

SAMPLE NUMBER	DESCRIPTION	PC1-010	ST1-010R	T01-010	T04-010	T07-010	T12-010	T17-010	T22-010	T24-010	T25-010	T26-010	T27-010	T28-010	T29-010	T30-010	T31-010	T32-010	T33-010
4,6-Dinitro-2-Methylphenol	3400 U	2100 U	3400 U	3500 U	3500 U	1700 U	1800 U	1900 U	2000 U	1600 U	3000 U	3000 U	1700 U						
N-Nitrosodiphenylamine	710 U	410 U	680 U	680 U	680 U	700 U	590 U	590 U	590 U	590 U	350 U								
4-Bromobenzenyl phenylether	710 U	410 U	680 U	680 U	680 U	700 U	590 U	590 U	590 U	590 U	350 U								
Hexachlorobutene	710 U	410 U	680 U	680 U	680 U	700 U	590 U	590 U	590 U	590 U	350 U								
Pentaethoxyethanol	3400 U	2100 U	3400 U	3500 U	3500 U	1700 U	1800 U	1900 U	2000 U	1600 U	3000 U	3000 U	1700 U						
Fresalite	18500	630	2150	3400	1	2300	1	1300	1	120	1	2200	1	1700	1	1700	1	1700	1
Malic acid	710 U	410 U	680 U	680 U	680 U	700 U	590 U	590 U	590 U	590 U	350 U								
Di-n-Butylphthalate	710 U	410 U	680 U	680 U	680 U	700 U	590 U	590 U	590 U	590 U	350 U								
Fluoranthene	21000	350	13000	14000	14000	12000	15000	15000	15000	15000	1100	1100	1100	1100	1100	1100	1100	1100	1100
Perme	12000	180	12000	12000	12000	12000	12000	12000	12000	12000	1100	1100	1100	1100	1100	1100	1100	1100	1100
Bis(2-Ethylhexyl)Phthalate	710 U	410 U	680 U	680 U	680 U	700 U	590 U	590 U	590 U	590 U	350 U								
3,3'-Dichlorobenzidine	1400 U	820 R	1400 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U							
Benzal Methacrylate	1900 L	180	7500	2	9500	2	5000	2	400	1	2000	1	3500	1	160	1	3500	1	160
bis(2-Ethylhexyl)Phthalate	270 U	410 U	530	530	680	680	730	730	180	180	590	590	590	590	590	590	590	590	590
Chloroacrylic Acid	410 U	7	410 U	7	410 U	7	410 U	7	410 U	7	410 U	7	410 U	7	410 U	7	410 U	7	410 U
Di-n-Octyl Phthalate	710 U	410 U	680 U	680 U	680 U	700 U	590 U	590 U	590 U	590 U	350 U								
Benzobifluorophene	4800 Y	410 U	7500 Y	4300 Y	2100	3600	1200	1200	1200	1200	350 U								
Benzofuran	1900	410 U	1500	1900	950	2100	1300	1300	1300	1300	400	400	400	400	400	400	400	400	400
Indenol,1,3-diphenyl	98	2	410 U	510	510	700	1400	110	110	110	110	350 U							
Dibenzofuran	710 U	410 U	680 U	680 U	680 U	700 U	590 U	590 U	590 U	590 U	350 U								
Benzofuran,1-phenylene	710 U	410 U	680 U	680 U	680 U	700 U	590 U	590 U	590 U	590 U	350 U								
Alumina	4530	2860	2100	1090	2500	1120	4080	1690	18200	18200	18200	18200	18200	18200	18200	18200	18200	18200	18200
Cerium(IV)	5.9	4.3	4.3	4.3	4.3	4.1	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Copper	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Iron	6100	8200	3800	2800	1890	1620	3280	2410	40000	40000	1530	1530	1530	1530	1530	1530	1530	1530	1530
Lead	7.7	4.9	3.5	2.4	2	1.8	3	11	5.4	34	18	108	6	4.3	1.9	1.9	1.9	1.9	1.9
Mercury	0.01	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Tin	6.2	12	12	12	12	4.6	5	2	2	2	44	15	20	4.1	0.1	0.1	0.1	0.1	0.1
TOC	433000	91000	307000	122000	169000	1130000	1800000	1070000	1170000	3400000	1670	207000	719000	316000	253000	31900	31300	31300	31300
Oil and Grease	31900 U	45900 J	35500 J	123000 J	123000 J	123000 U	123000 L												

AB301161

AR301162

SAMPLE NUMBER	DESCRIPTION	009-010	012-010	030-010
		5.14 g/w	5.35 g/w	5.35 g/w
4,4'-Bis(2-methylphenol)	1400 u	1600 u	1600 u	1600 u
4-Nitrosodiphenylamine	720 u	720 u	720 u	720 u
4-Ethoxybenzyl phenyl ether	320 u	320 u	320 u	320 u
Mesachlorobenzene	120 u	120 u	120 u	120 u
Phenylchlorophenol	1400 u	1600 u	1600 u	1600 u
Phenothiazene	120 u	120 u	120 u	120 u
Phthalic anhydride	120 u	120 u	120 u	120 u
O-n-Burylphthalate	320 u	320 u	320 u	320 u
Fluoranthene	120 u	120 u	120 u	120 u
Furan	120 u	120 u	120 u	120 u
Butylbenzylphthalate	320 u	320 u	320 u	320 u
4,4'-Dichlorobenzidine	650 u	710 u	650 u	650 u
Benzylidenebiphenol	120 u	120 u	120 u	120 u
Isobutylbenzylphthalate	150 u	150 u	150 u	150 u
Chrysene	120 u	120 u	120 u	120 u
Di-n-Octyl Phthalate	320 u	320 u	320 u	320 u
Benzotetrafluoranthene	120 u	120 u	120 u	120 u
Benzotetrafluoranthene	120 u	120 u	120 u	120 u
Benzofluoroprene	120 u	120 u	120 u	120 u
Indenol, 2,3-diphenyl	120 u	120 u	120 u	120 u
Benzofluorobiphenol	120 u	120 u	120 u	120 u
Benzotetrafluoroprene	120 u	120 u	120 u	120 u
Aluminum	1220	6500	2730	2730
Chromite	1.2	7.7	4.2	4.2
Copper	1.2	1.3	1.3	1.3
Iron	1000	21000	18900	18900
Lead	5.9	14	6.3	6.3
Manganese	0.1	0.2	0.1	0.1
Zinc	2.0	14	4.6	4.6
TIC	174000	914000	1730000	1730000
OIL AND ERASE	2040000	3330000	3130000	3130000

#### AIR SAMPLING ANALYTICAL RESULTS

31R SAMPLING ANALYTICAL RESULTS					
	AMC-001	AMC-002	AMG-001	AMG-002	AMG-003
AMC-001	AMC-001	AMC-001	AMG-001	AMG-001	AMG-001
AMC-002	AMC-002	AMC-002	AMG-002	AMG-002	AMG-002
AMG-001	AMG-001	AMG-001	AMG-001	AMG-001	AMG-001
AMG-002	AMG-002	AMG-002	AMG-002	AMG-002	AMG-002
AMG-003	AMG-003	AMG-003	AMG-003	AMG-003	AMG-003

AR301164

## AIR SAMPLING MONITORING RESULTS

SAMPLE NUMBER	AM1-001	AM2-001	AM3-001	AM4-001	AM5-001	AM6-001	AM7-001	AM8-001	AM9-001	AM10-001
flavor/odor meters	0.048	0.063	0.022	0.057	0.044	0.046	0.046	0.046	0.046	0.046
flavor/odor meters	0.97	0.89	0.96	0.95	0.812	0.965	0.931	0.930	0.930	0.930
flavor/odor meters	0.588	0.637	0.633	0.666	0.705	0.575	0.747	0.747	0.747	0.747
all results in micrograms/letter coded										
4-Chlorophenyl phenyl ether	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
Fluorene	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
4-Nitroaniline	48.5 u	44.9 u	47.3 u	41.5 u	46.6 u	49.75 u	46.35 u	47.4 u	50 u	50 u
4,6-Dinitro-2-Methylphenol	49.5 u	44.9 u	47.3 u	47.5 u	46.6 u	49.25 u	46.35 u	47.4 u	50 u	50 u
N-Nitrosodiphenylamine	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
4-Bis(4-nitrophenyl)phenyl ether	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
Hexachlorobenzene	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
Pentachlorophenol	17.2 u	17.19 u	16.325 u	16.45 u	19.74 u	16.375 u	18.675 u	18.762 u	22 u	22 u
Phenanthrene	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
Anthracene	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
Eth- <i>n</i> -Butylphthalate	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
Fluoranthene	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
Pyrene	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
Butylbenzylphthalate	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
3,3'-Bischlorobenzidine	19.4 u	17.96 u	18.32 u	15 u	16.24 u	19.7 u	18.42 u	18.76 u	20 u	20 u
Benzotrichloroethane	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
1,1,2-Ethylbenzylphthalate	9.7 u	1.78 u	9.46 u	0.75 u	8.12 u	1.97 u	1.86 u	1.96 u	10 u	10 u
Diphenene	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
Di-n-Butyl Phthalate	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
Benzobifluoranthene	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
Benzofluoranthene	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
Benzofluoranthene	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
Indeno[1,2- <i>c</i> ]Pyrone	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
Dibenzofluoranthene	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u
Menoq, h, <i>i</i> -Perylene	9.7 u	8.98 u	9.46 u	9.5 u	8.12 u	9.5 u	9.31 u	9.48 u	10 u	10 u

AR301165

GROUND WATER ANALYTICAL RESULTS

AR301166

## GROUND WATER ANALYTICAL RESULTS

SAMPLE NUMBER DESCRIPTION	64-108-001 DRILLED WATER	R01-001	R02-001	R03-001/R	R04-001	R05-001	R06-001	R07-001	R08-001	R09-001/R	R10-001	R11-001	R12-001	R13-001	R14-001	R15-001	R16-001	R17-001/R	R18-001	R19-001	R20-001	
4,4'-Dinitro-2-Methyl-phenol	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u	
4-Nitrosourea/Phenyllamine	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
Heptachloroethene	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
Fenachloroethene:	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u
Pheantrene	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
Naphthalene	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
Di-n-Butylphthalate	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
Fluoranthene	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
Pyrene	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
Bis(2-Ethylhexyl)phthalate	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	
3,3'-Bis(2-Ethylhexyl)benzidine	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
Benzolabiphenyl	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
Bis(2-Ethylhexyl)phthalate	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
Dibenzene	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
2-m-Butoxy Phthalate	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
Benzobiphenyl	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
Benzofluoranthene	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
Benzolanthrone	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
Indeno[1,2,3- <i>cd</i> ]pyrene	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
Indeno[1,2,3- <i>cd</i> ]fluoranthene	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
Di-Benzol,1,4-phenylene	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	
Aluminum	100 u																					
Chromium	5.0																					
Copper	15.0																					
Iron	25.0																					
Lithium	5.0																					
Mercury	C.2.J11																					
Zinc	7.0																					
TOC	3600																					
OIL AND GREASE	500 u																					
ODD	101 u																					
TSS																						
TIN																						
Mg/Zn/Mg3	10000 u	10000 u	10000 u	10000 u	10000 u	10000 u	10000 u	10000 u	10000 u	10000 u	10000 u	10000 u	10000 u	10000 u	10000 u	10000 u	10000 u	10000 u	10000 u	10000 u	10000 u	
PHOS	2000 u	2000 u	2000 u	2000 u	2000 u	2000 u	2000 u	2000 u	2000 u	2000 u	2000 u	2000 u	2000 u	2000 u	2000 u	2000 u	2000 u	2000 u	2000 u	2000 u	2000 u	
ACIDITY																						
ALKALINITY																						

AR301167

POLYMER ANALYTICAL RESULTS

• AR301168

GENERAL METAL ANALYTICAL RESULTS

AR301169

## GROUND WATER ANALYTICAL RESULTS

SAMPLE NUMBER DESCRIPTION	MW19-001 Field Blank	MW20-011R Env MW1-001	MW21-001 Env MW1-001 Trip Blank	MW22-001 Field Blank
Chloroethane				
Bromoethane				
Vinyl Chloride				
Dilorethane				
Methylene Chloride				
Acetone				
Carbon Disulfide				
1,1-Dichloroethene				
1,1,1-Trichloroethane				
Carbon Tetrachloride				
Vinyl Acetate				
Erochloroform methane				
1,2-Dichloropropane				
Trans-1,3-Dichloropropene				
2-Butalone				
Trifluoroethene				
Dibromoethane				
1,1,2-Trichloroethane				
Benzene				
cis-1,3-Dichloropropene				
2-Chloroethylvinylether				
Perchloro				
Ethylbenzene				
Styrene				
Total Aromatic	5.0	97.3	5.0	5.0
Tetrahydroethene				
1,1,1,2-Tetrachloroethane				
Toluene	2.0	140.3	2.0	2.0
Chlorobenzene				
Ethylbenzene				
Styrene				
Total Aromatic	5.0	99.1	5.0	5.0
Phenol	2.0	100.0	10.0	10.0
bis(2-Chloroethyl) Ether	10.0	400.0	10.0	10.0
2-Dihloroethane	10.0	400.0	10.0	10.0
1,3-Dichlorobenzene	10.0	400.0	10.0	10.0
1,4-Dichlorobenzene	10.0	400.0	10.0	10.0
Benzyl Alcohol	10.0	400.0	10.0	10.0
1,2-Dichlorobenzene	10.0	400.0	10.0	10.0
-Methylphenol	10.0	600.0	10.0	10.0
bis(2-chloroethyl) Ether	10.0	400.0	10.0	10.0
4-Methylbenzene	10.0	110.0	10.0	10.0
N-Nitrosodi-n-propylamine	10.0	400.0	10.0	10.0
Hexachloroethane	10.0	400.0	10.0	10.0
Nitrobenzene	10.0	400.0	10.0	10.0
Isophorone	10.0	400.0	10.0	10.0
2-Methoxybenzene	10.0	750.0	10.0	10.0
2,4-Dimethylphenol	10.0	2000.0	30.0	30.0
Benzon Acid	50.0	400.0	10.0	10.0
bis(2-Chloroethyl) Methane	10.0	400.0	10.0	10.0
2,4-Dichlorophenol	10.0	400.0	10.0	10.0
1,2,4-Trichlorobenzene	10.0	400.0	10.0	10.0
Naphthalene	10.0	1500.0	10.0	10.0
4-Diisopropylbenzene	10.0	400.0	10.0	10.0
Heptachlorobenzene	10.0	400.0	10.0	10.0
4-Diisopropylbenzene	10.0	400.0	10.0	10.0
4-Chlorobiphenyl	10.0	2000.0	50.0	50.0
2-Chlorobiphenyl	10.0	400.0	10.0	10.0
2-Methoxybiphenyl	10.0	2000.0	50.0	50.0
Acetophenone	10.0	400.0	10.0	10.0
2-Nitroaniline	10.0	400.0	10.0	10.0
4-Nitrophenol	10.0	400.0	10.0	10.0
Dibenzofuran	10.0	600.0	10.0	10.0
2,4-Dinitrochlorobenzene	10.0	400.0	10.0	10.0
4,4'-Dinitrophenol	10.0	400.0	10.0	10.0
4-(2,4-dinitrophenyl)-phenolether	10.0	400.0	10.0	10.0
4-(2,4-dinitrophenyl)-phenol	10.0	400.0	10.0	10.0

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## GROUND WATER ANALYTICAL RESULTS

SAMPLE NUMBER	DESCRIPTION	Field Blank	Rep Hg(0)-00	Rep Hg(0)-R	Rep Hg(0)-C1	Rep Hg(0)-F	Rep Hg(0)-J	Field Blank
4,6-Dinitro-2-Methylphenol		50.0	200.0	50.0	50.0	50.0	50.0	
4-Nitrocresol/Phenylamine		10.0	45.0	10.0	10.0	10.0	10.0	
4-(o-aminophenyl)ether		10.0	400.0	10.0	10.0	10.0	10.0	
Mercaptobenzene		10.0	400.0	10.0	10.0	10.0	10.0	
Fenachlorobenzene		30.0	1100.0	30.0	30.0	30.0	30.0	
Phenanthrene		10.0	1200.0	10.0	10.0	10.0	10.0	
Anthracene		10.0	400.0	10.0	10.0	10.0	10.0	
Di-n-Buylphthalate		10.0	400.0	10.0	10.0	10.0	10.0	
Fluoranthene		16.0	6900.0	10.0	6.0	10.0	6.0	
Pyrene		5.1	4200.0	10.0	2.1	10.0	2.1	
Butylbenzylphthalate		10.0	400.0	10.0	10.0	10.0	10.0	
3,5-Dichlorobenzidine		20.0	800.0	20.0	20.0	20.0	20.0	
Benzotriphthalimide		10.0	3800.0	10.0	10.0	10.0	10.0	
Bis(2-Ethylhexyl)Phthalate		10.0	400.0	10.0	10.0	10.0	10.0	
Diphenyl Phthalate		10.0	400.0	10.0	10.0	10.0	10.0	
Benzobifluorophane		10.0	400.0	10.0	10.0	10.0	10.0	
Benzofluorophane		10.0	910.0	10.0	10.0	10.0	10.0	
Indenol(1,3-d)Phe		10.0	530.0	10.0	10.0	10.0	10.0	
Dibenzol(1,3-d)Phe		10.0	400.0	10.0	10.0	10.0	10.0	
Benzol(1,3-d)Phe		10.0	400.0	10.0	10.0	10.0	10.0	
Aluminas								
Chromium								
Copper								
Tin								
Lead								
Mercury								
Zinc								
TOC OIL AND GREASE								
DDT								
DDO								
BOD								
TSS								
THM								
MONOIS								
ES								
ALDOLY								
ALKALINITY								
		10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	
		2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	

AR301171

3001 PORTING AND VICTIM RESCUE

## RESULTS

AR301173

302 MRC MARCH 2000

## SOIL BORING ANALYTICAL RESULTS

SAMPLE NUMBER	DESCRIPTION	BII-004/R	BII-005/R	BII-005/R	BII-001	BII-001	BII-004	FB-001	FB-001	MW7-001	MW7-001/R	MW7-003	MW7-007	MW7-007	MW7-009	MW7-009
		Lab dep	Lab dep	Lab dep	Field	Field	Field	Field Blank	Field Blank	1 g/ea	1 g/ea	1 g/ea	5.13 g/ea	5.13 g/ea	5.03 g/ea	5.03 g/ea
4,6-Dinitro-2-methylphenol		50000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
N-Nitrosodiphenylamine		10000 U	1000 U	5000 J	5000 J	5000 J	5000 J	5000 J	5000 J	5000 J	5000 J	5000 J	5000 J	5000 J	5000 J	5000 J
4-Ethoxybenzyl phenyl ether		10000 U	1000 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U
Hexachlorobutene		10000 U	1000 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U
Octachlorobutene		50000 U	7500 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U
Pheanthrene		800000 J	90000 J	100000 J	100000 J	100000 J	100000 J	100000 J	100000 J	100000 J	100000 J	100000 J	100000 J	100000 J	100000 J	100000 J
Fenthane		10000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
Di-n-butylphthalate		10000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
Fluoranthene		80000 U	350000	150000	200000	200000	200000	200000	200000	200000	200000	200000	200000	200000	200000	200000
Perene		20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U
Ethylbenzylphthalate		10000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
1,3-Dichlorobenzidine		20000 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U
Benzotriphosphole		100000 U	100000 U	100000 U	100000 U	100000 U	100000 U	100000 U	100000 U	100000 U	100000 U	100000 U	100000 U	100000 U	100000 U	100000 U
bis(2-Ethylhexyl)Phthalate		10000 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U
Tris(2-		10000 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U
Di-n-hexyl Phthalate		10000 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U
Benzo(bifluoranthene)		100000 Y	77000 Y	60000 Y	77000 Y	77000 Y	77000 Y	77000 Y	77000 Y	77000 Y	77000 Y	77000 Y	77000 Y	77000 Y	77000 Y	77000 Y
Benzo(k)fluoranthene		10000 U	61000 U	61000 U	61000 U	61000 U	61000 U	61000 U	61000 U	61000 U	61000 U	61000 U	61000 U	61000 U	61000 U	61000 U
Genistein		10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U
Indenol, 1,3-diene		10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U
Subeno[1,3]naphthacene		10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U
Benz[e]phenanthrene		10000 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U
Alu-7,8-dihydro-5H-dibenzo[a,h]cycloheptene		5500 U	4000 U	4000 U	6000 U	6000 U	6000 U	6000 U	6000 U	6000 U	6000 U	6000 U	6000 U	6000 U	6000 U	6000 U
Chromane		6.2 J	9.1	9.4	10 J	6.7	20 U	8.6 U	1360	511	8376	8376	8376	8376	8376	8376
Copper		6780	10400	11900	5.2	5.2	7.4 J	2.9 J	1 U	8.9 J	3.2 J	1.2 J	1.2 J	1.2 J	1.2 J	1.2 J
Iron		1.3	1.8 J	0.1 U	0.1 U	0.1 U	10000	5500	10 U	4.2 J	1520	1520	1520	1520	1520	1520
Lead		1.3	0.1 U	0.1 U	0.1 U	0.1 U	6.3	1 W	0.1 W	7.7 J	1.5	1.5	1.5	1.5	1.5	1.5
Mercury		1.3	0.9 J	0.7 J	5.6	5.6	2.1 J	0.1 W	0.1 W	0.53 J	0.1 W	0.1 W	0.1 W	0.1 W	0.1 W	0.1 W
Zinc		100	300000	200000	450000	200000	35000 L	35000 L	125000 J	125000 J	125000 J	125000 J	125000 J	125000 J	125000 J	125000 J
Oil and Grease																

AR301175



## ANALYTICAL RESULTS

SAMPLE NUMBER DESCRIPTION	SOIL										ANALYTICAL RESULTS									
	SS-001	SS-002	SS-003	SS-004	SS-005	SS-006	SS-007	SS-008	SS-009	SS-010	TB-001	TB-002	TB-003/R	TB-004	TB-005/R	TB-006	TB-007	TB-008	P01-001	
																				1 gram
4,6-Dinitro-2-Methylphenol	1700 u	1600 u	1600 u	1600 u	1600 u	1600 u	1600 u	1600 u	1600 u	2000 u										
N,N-Triisopropylbenzene	340 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u										
4-Bromobenzyl phenyl ether	740 u	730 u	730 u	730 u	730 u	730 u	730 u	730 u	730 u	400 u										
Terphthalic anhydride	1700 u	1600 u	1600 u	1600 u	1600 u	1600 u	1600 u	1600 u	1600 u	2000 u										
Phenanthrene	340 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	400 u										
Beta-acene	740 u	730 u	730 u	730 u	730 u	730 u	730 u	730 u	730 u	400 u										
Di-n-Octylphthalate	340 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	400 u										
Fluoranthene	740 u	730 u	730 u	730 u	730 u	730 u	730 u	730 u	730 u	400 u										
Furan	740 u	730 u	730 u	730 u	730 u	730 u	730 u	730 u	730 u	400 u										
Ethylbenzylphthalate	740 u	730 u	730 u	730 u	730 u	730 u	730 u	730 u	730 u	400 u										
1,3-Ethylidenebutane	660 u	650 u	650 u	650 u	650 u	650 u	650 u	650 u	650 u	800 u										
Benzyl Acetate	740 u	730 u	730 u	730 u	730 u	730 u	730 u	730 u	730 u	400 u										
Bis(2-Ethylhexyl)Phthalate	180 u	900 u	900 u	900 u	900 u	900 u	900 u	900 u	900 u	400 u										
Durane	340 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	400 u										
Eth-n-Octyl Phthalate	340 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	400 u										
Benzofluoranthene	340 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	400 u										
Benzofluoranthene	340 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	400 u										
Terphenyl	340 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	400 u										
Indenol,1,3-diphenyl	340 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	400 u										
Dibenzol,1,3-diphenyl	340 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	400 u										
Benzol,1,3-diphenyl	340 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	330 u	400 u										
All aromatic	18000	20 u	8800	9600	6800	6800	6800	6800	6800	6800	12000	8100	20 u	20 u	20 u	20 u	20 u	20 u	11000	
Chlorine	15	1 u	6.5 J	9.8 J	6.3 J	8.2 J	12 J	12 J	12 J	12 J	12 J	12 J	12 J	12 J	12 J	12 J	12 J	12 J	2.4 J	
Lapier	11	1 u	1 u	1 u	4.4 J	4.4 J	4.4 J	4.4 J	4.4 J	4.4 J	4.4 J	4.4 J	3.7 J							
Iron	12000	10 u	6800	10600	4800	7200	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	10000	
Lead	12	1 u	1 u	1 u	7.9	6.5	7.1	8.9	8.9	8.9	12 J	12 J	12 J	12 J	12 J	12 J	12 J	12 J	1.5	
Mercury	0.1 u	0.1 u	0.1 u	0.1 u	0.1 u	0.1 u	0.1 u	0.1 u	0.1 u											
Iron	65	2 u	17 J	12 J	15 J	14 J	12 J	12 J	12 J	12 J	12 J	12 J	12 J	12 J	17 J					
TOC																				
Oil and Grease																				

AR301177



## ANALYTICAL RESULTS

SAMPLE NUMBER DESCRIPTION	PCP-001		PCP-001/R		PCP-002		PCP-003		PCP-004		PCP-005		PCP-006			
	5.01 gram	PCP-001 1 g/aa	PCP-001 5.01 gram	PCP-001/q 1 g/aa	PCP-001/q 5.01 gram	PCP-001/R 1 g/aa	PCP-001/R 5.01 gram	PCP-003/q 4.98 gram	PCP-003/q 4.96 gram	PCP-004/R 1 g/aa	PCP-004/R 5.01 gram	PCP-005/R 1 g/aa	PCP-005/R 5.01 gram	PCP-006/R 1 g/aa	PCP-006/R 5.01 gram	
1,6-dinitro-2-methylphenol	1800 W	11000 U	1700 W	10000 U	10000 U	1700 U	10000 U	10000 U	10000 U	1700 U	10000 U	10000 U	1700 U	10000 U	1700 U	
N,N-ditrodiphenylamine	360 U	260 U	360 U	260 U	360 U	360 U	260 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U
4-nitro-1-phenylmethane	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U
Heptachloroethene	120 J	120 J	120 J	120 J	120 J	120 J	120 J	120 J	120 J	120 J	120 J	120 J	120 J	120 J	120 J	120 J
Pentachloroepoxide	55 J	55 J	55 J	55 J	55 J	55 J	55 J	55 J	55 J	55 J	55 J	55 J	55 J	55 J	55 J	55 J
Thiophene	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U
Anthracene	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U
Di-n-butylphthalate	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W
Ethyl acetate	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Furan	160 J	160 J	160 J	160 J	160 J	160 J	160 J	160 J	160 J	160 J	160 J	160 J	160 J	160 J	160 J	160 J
Naphthalene	70 W	70 W	70 W	70 W	70 W	70 W	70 W	70 W	70 W	70 W	70 W	70 W	70 W	70 W	70 W	70 W
3,5-dichlorodurene	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Benzaldehyde	140 J	140 J	140 J	140 J	140 J	140 J	140 J	140 J	140 J	140 J	140 J	140 J	140 J	140 J	140 J	140 J
1,4-D-Ethylbenzylphthalate	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U
Chrysene	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U
Di-n-propyl Phthalate	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U
Perchlorofluoranthene	1000 W	1000 W	1000 W	1000 W	1000 W	1000 W	1000 W	1000 W	1000 W	1000 W	1000 W	1000 W	1000 W	1000 W	1000 W	1000 W
Perchloroethylene	220 J	220 J	220 J	220 J	220 J	220 J	220 J	220 J	220 J	220 J	220 J	220 J	220 J	220 J	220 J	220 J
Indenol(2,3-c)fluorene	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W
Dibenzol,1,4-phenanthrene	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W	360 W
Terphenyl,1,4,4'-terphenyl	70 J	70 J	70 J	70 J	70 J	70 J	70 J	70 J	70 J	70 J	70 J	70 J	70 J	70 J	70 J	70 J
Alumina	950 J	1200 J	800 J	1200 J	800 J	1200 J	800 J	1200 J	800 J	1200 J	800 J	1200 J	800 J	1200 J	800 J	1200 J
Dioxane	69 J	14 J	13	69 J	13	69 J	13	69 J	13	69 J	13	69 J	13	69 J	13	69 J
Copper	11 J	6.8 J	11	11	6.8 J	11	6.8 J	11	6.8 J	11	6.8 J	11	6.8 J	11	6.8 J	11
Iron	940	850	810	940	850	810	940	850	810	940	850	810	940	850	810	940
Lead	1 J	6.8	1.4 J	1 J	6.8	1.4 J	1 J	6.8	1.4 J	1 J	6.8	1.4 J	1 J	6.8	1.4 J	1 J
Mercury	0.1 W	0.1 W	0.1 J	0.1 W	0.1 J	0.1 W	0.1 J	0.1 W	0.1 J	0.1 W	0.1 J	0.1 W	0.1 J	0.1 W	0.1 J	0.1 W
Tin	17 J	1.1 J	5 J	17 J	1.1 J	5 J	17 J	1.1 J	5 J	17 J	1.1 J	5 J	17 J	1.1 J	5 J	17 J
TOC AND DENSE																

AR301179



## ANALYTICAL RESULTS

SAMPLE NUMBER TESTS PERFORMED	PCB-471 5.1 g/ea	PCB-472/R 1 g/ea	PCB-473/C 5.6 g/ea	PCB-474/R 1 g/ea	PCB-475/S 5.07 g/ea	SOIL						WATER					
						F0-000/N 100 U	F0-000/W 100 U	F0-000/R 100 U	F0-000/S 100 U	F0-000/R 10000 U							
4,6-Dinitro-2-methoxyphenol	170 U	100 U	100 U	100 U	100 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	
p-Nitrosodiphenyl azine	340 U	340 U	340 U	340 U	340 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	
4-(4-nitrophenyl)-1-phenylethane	240 U	240 U	240 U	240 U	240 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	
Neraditylbenzene	170 U	170 U	170 U	170 U	170 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	
Phenanthrene	740 U	740 U	740 U	740 U	740 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	
Anthracene	740 U	740 U	740 U	740 U	740 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	
Bis(4-nitrophenyl)phthalate	240 U	240 U	240 U	240 U	240 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	
Fluoranthene	41 U	41 U	41 U	41 U	41 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	
Pyrene	41 U	41 U	41 U	41 U	41 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	
Butylbenzylphthalate	740 U	740 U	740 U	740 U	740 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	
1,3-Dinitro-2,4-diazidone	680 U	680 U	680 U	680 U	680 U	40000 U	40000 U	40000 U	40000 U	40000 U	40000 U	40000 U	40000 U	40000 U	40000 U	40000 U	
Benzylideneanthraquinone	24 U	24 U	24 U	24 U	24 U	6300 U	6300 U	6300 U	6300 U	6300 U	6300 U	6300 U	6300 U	6300 U	6300 U	6300 U	
Bis(2-Ethyl hexyl) Phthalate	140 U	140 U	140 U	140 U	140 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	
Chrysene	740 U	740 U	740 U	740 U	740 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	
Bis(4-nitrophenyl) naphthalate	340 U	340 U	340 U	340 U	340 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	
Benzofluoranthene	340 U	340 U	340 U	340 U	340 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	
Benzothiophenanthrene	140 U	140 U	140 U	140 U	140 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	
Benzotrichloroethylene	140 U	140 U	140 U	140 U	140 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	
Imidomethyl-4,4'-dihydroxybiphenyl	140 U	140 U	140 U	140 U	140 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	
Dibenzocycloheptene	140 U	140 U	140 U	140 U	140 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	
Benzotrichloroethene	140 U	140 U	140 U	140 U	140 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	
Alachlor	12200	10100	9170	8670	8000	10000	10000	8180	7870	720 U							
Chloroanil	E.9	6.4 J	5.5	5.5	5.7	11	11	R	R	R	R	R	R	R	R	R	R
Copper	4.2 (1)	4.2 (1)	6.2	6.2	6.3	5.9	5.9	R	R	R	R	R	R	R	R	R	R
Iron	12000	6200	25100	16800	23530	22000	22000	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Lead	6.8 J	4	5.2 J	9.5	5.0 J	8.2 J	8.2 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Mercury	0.39 (1)	0.14 U	0.46	0.21 J	0.15 J	0.27	0.27	0.1 M	0.1 M	0.1 M	0.1 M	0.1 M	0.1 M	0.1 M	0.1 M	0.1 M	0.1 M
Zinc	7.9	8 J	14	14	14	11	11	2 M	2 M	2 M	2 M	2 M	2 M	2 M	2 M	2 M	2 M

TOC AND INFRANCE

AR301181

AR 30/182

SAMPLE NUMBER DESCRIPTION	F15-031/R Field No.	F15-031A Field No.	F15-035	F17-006/F	F17-007	F18-005	F19-001	F19-006	F20-001	F20-008	F21-001/R	F21-006/R	F22-003	F22-007	F22-007 5.75 g/m	F22-007 5.07 g/m	ANALYTICAL RESULTS	
																	ppm	ppm
4,6-Dinitro-2-methylphenol	5100 U		1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	
4-Nitrosodiphenylamine	10000 U		2100 U	2100 U	2100 U	2100 U	2100 U	2100 U	2100 U	2100 U	2100 U	2100 U	2100 U	2100 U	2100 U	2100 U	2100 U	
4-Bromophenyl phenovether	10000 U		300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	
Hexachlorobenzene	10000 U		340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	
Pentachlorobenzene	51000 U		1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	
Phenanthrene	51000 U		52000 U	52000 U	100000 U	100000 U	100000 U	100000 U	100000 U	100000 U	100000 U	100000 U	100000 U	100000 U	100000 U	100000 U	100000 U	
Anthracene	100000 U		340 U	340 U	210000 U	210000 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	
Indeno[1,2,3- <i>bc</i> ]phenanthrene	100000 U		340 U	340 U	210000 U	210000 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	
Fluoranthene	100000 U		716 U	68000 U	435 U	745 U	620 U	570 U	57 U	340 U	670 U	340 U	340 U	340 U	340 U	340 U	340 U	
Pyrene	100000 U		490 U	320000 U	195 J	240 U	750 U	340 U	340 U	340 U	340 U	340 U	41 J	340 U	340 U	340 U	340 U	
Benzylbenzylphthalate	10000 U		740 U	71000 U	740 U	690 U	690 U	680 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	
1,3-Dichlorobenzidine	200000 U		630 U	42000 U	630 U	3100 U	3100 U	3100 U	3100 U	3100 U	3100 U	3100 U	3100 U	3100 U	3100 U	3100 U	3100 U	
Benzalaliphatic acid	38000 U		160 U	71000 U	3100 U	3100 U	3100 U	3100 U	3100 U	3100 U	3100 U							
bis(2-Ethylhexyl) Phthalate	10000 U		737 U	21000 U	340 U	169 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U					
Dryene	68000 U		340 U	21000 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	
Di-n-Octyl Phthalate	100000 U		740 U	21000 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	
Perchlorofluoranthene	70000 U		740 U	21000 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	
100000 U		150000 U	367 U	367 U	367 U	1500 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	
1,2,4,9-C	10000 U		97 J	58000 U	340 U	340 U	1200 U	340 U	340 U	340 U	340 U	340 U	150 J	360 U	360 U	360 U	360 U	
Indenol-1,3-diformene	10000 U		740 U	1500 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U							
Indenol-1,4-diformene	10000 U		740 U	1500 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U							
Benzocyclo[4.1.0]heptene	10000 U		340 U	1500 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U							
Alumina	2 U		10600 U	14000 U	22000 U	8590 U	9940 U	13000 U	10100 U	11200 U	9990 U	2780 U	15300 U	9100 U	9100 U	9100 U	9100 U	
Drumline	1 U		11 J	16 U	23 J	19 J	9 U	15 U	14 U	25 U	20 U	6.2 J	16 J	9.5 U	9.5 U	9.5 U	9.5 U	
Copper	1 U		5.1 J	7.2 U	7.3 J	6.3 U	6.1 U	5.9 U	7.2 U	5.7 U	4.3 U	5.5 J	6.5 J	4.6 U	4.6 U	4.6 U	4.6 U	
Iron	10 U		7000 U	16200 U	5410 U	2990 U	9030 U	2370 U	5790 U	1130 U	11400 U	14500 U	14500 U	16300 U	16300 U	16300 U	16300 U	
Lead	1 U		6.6 U	11 U	6.3 U	12 U	5.1 U	15 U	7.1 U	27 U	1.9 U	1.9 U	1.9 U	6.6 U	6.6 U	6.6 U	6.6 U	
Mercury	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
Zinc	2 U		4.2 J	17 U	17 U	19 U	5.9 U	14 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
TOC OIL AND GREASE			660000 J	6125000 J										14000000	83500			

AR301183

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## ANALYTICAL RESULTS

SOIL

SAMPLE NUMBER	P23-001/R	P23-002/R	P23-007/R	P24-001/R	P24-007/R
4,6-Dinitro-2-methylphenol	700 u	1700 u	1000 u	1700 u	1700 u
4-Nitrosodiphenyl sulfone	300 u	300 u	200 u	340 u	340 u
4-Pyridinyl-2-phenyl ether	310 u	340 u	240 u	340 u	340 u
Hexachlorobutene	310 u	360 u	240 u	340 u	340 u
Phenanthrene	1700 u	1700 u	2600 u	740 J	740 J
Phenanthrene	350 u	340 u	7900 u	1700 u	1700 u
Anthracene	350 u	340 u	3600 u	1200 u	1200 u
Di-n-butylphthalate	340 u	340 u	2000 u	340 u	340 u
Fluoranthene	340 u	340 u	2000 u	52 JU	52 JU
Prrene	340 u	340 u	11000 u	610 u	610 u
Bis(2-Butyl)phthalate	340 u	340 u	11000 u	340 u	340 u
3,5-Dichloroacetone	670 u	670 u	4600 u	670 u	670 u
Benzofuranone	340 u	340 u	7300 u	250 J	250 J
Bis(2-Ethylhexyl)phthalate	49 JU	63 JU	400 JU	92 JU	92 JU
Dryene	340 u	340 u	2000 u	340 u	340 u
Ethyl Diethyl Phthalate	340 u	340 u	2000 u	340 u	340 u
Benzofuranone	340 u	340 u	340 u	2000 u	340 u
Benzofuranone	340 u	340 u	24000 u	120 J	120 J
Benzofuranone	340 u	340 u	13000 u	45 J	45 J
Indenol(1,3-c)-Pyrene	340 u	340 u	1200 u	340 u	340 u
Indenol(1,3-c)-Naphthalene	340 u	340 u	920 J	340 u	340 u
Benzofuran(1,3-c)-Phylene	340 u	340 u	6300 J	340 u	340 u
Alumina	6800	6100	7160	2420	2420
Chromia	5.6 J	7.1 J	9.2 J	5.6 J	5.6 J
Upper	R	4.6 JU	6.6 J	3 JU	3 JU
Iron	0.010	2.6 JU	18000	1420	1420
Lead	5.7	1.6	10	1.8 J	1.8 J
Mercu,	0.1 JU	0.1 J	0.1 J	0.17 J	0.17 J
Zinc	2.6 JU	2.6 JU	13 J	2 U	2 U

TIC  
OIL RATE EFFECT

AR301185

#### **WATER SAMPLES**

SOUTHERN MARYLAND MOSQUITO TREATING SITE  
CENSUS OF INVESTIGATION

W EIEI A SCREENING DATA = 1011 PHS

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SOUTHERN MARYLAND WOOD TREATING SITE  
REMEDIATION INVESTIGATION

UV FIELD SCREENING DATA - TOTAL PHOS

WATER SAMPLES

SAMPLE NUMBER	TOTAL PHOS IN SAMPLE, ppb	SAMPLING DATE	SAMPLE MATRIX	SITE ACTIVITY	SAMPLE DESCRIPTION	SAMPLE EXTRACTION DATE
PL1-0104 1/100 DILUT	113.484	7/10/86	SURFACE WATER	WEST TRIBUTARY		7/11/86
SM1-5M-101-010	2637.688	7/10/86	SURFACE WATER	EAST TRIBUTARY		7/11/86
TCL-0101 1/10 DILUT	61.300	7/10/86	SURFACE WATER	EAST TRIBUTARY		7/11/86
SM1T-SM-003-010	-0.212	7/10/86	SURFACE WATER	EAST TRIBUTARY		7/11/86
SM1T-SM-005-010	-0.212	7/10/86	SURFACE WATER	EAST TRIBUTARY		7/11/86
SM1T-SM-010-010	-0.212	7/10/86	SURFACE WATER	EAST TRIBUTARY		7/11/86
SM1T-SM-011-011	-0.212	7/10/86	SURFACE WATER	EAST TRIBUTARY		7/11/86
SM1T-SM-01K-001	4.570	7/10/86	WATER	DRILL CUTTING FLUID		7/11/86
SM1T-SM-041-010	9.950	7/11/86	SURFACE WATER	BROOKS RUN and MACINTOSH CREEK		7/14/86
SM1T-SM-051-010 DILUT	11.844	7/11/86	SURFACE WATER	BROOKS RUN and MACINTOSH CREEK		7/14/86
SM1T-SM-051-010 DILUT	177.512	7/11/86	SURFACE WATER	FIELD DUPLICATE		7/14/86
SM1T-SM-051-010	110.952	7/11/86	SURFACE WATER	BROOKS RUN and MACINTOSH CREEK		7/14/86
SM1T-SM-051-010	22.958	7/11/86	SURFACE WATER	BROOKS RUN and MACINTOSH CREEK		7/14/86
SM1T-SM-051-010	58.420	7/11/86	SURFACE WATER	BROOKS RUN and MACINTOSH CREEK		7/14/86
SM1T-SM-052-002	528.988	7/11/86	WATER	DECOD FLUID	DECOD FLUID SAMPLE FROM SUMP IN PAD 2	7/14/86
SM1T-SM-052-002	543.382	7/11/86	WATER	DECOD FLUID	DECOD FLUID METHOD DUPLICATE	7/14/86
LAB BLANK	32.300		WATER	METHOD BLANK	D1 WATER METHOD BLANK	7/14/86
SM1T-SM-057-001	2.312	7/15/86	WATER	FIELD/TRIP BLANK	D1 WATER - FIELD/TRIP BLANK	7/14/86
SM1T-SM-056-001	10.518	7/15/86	WATER	FIELD/TRIP BLANK	D1 WATER - FIELD/TRIP BLANK	7/14/86
SM1T-SM-SBT-002	12.456	7/15/86	WATER	FIELD/TRIP BLANK	D1 WATER - FIELD/TRIP BLANK	7/14/86
SM1T-SM-055-002	21.342	7/16/86	WATER	FIELD/TRIP BLANK	D1 WATER - FIELD/TRIP BLANK	7/14/86
SM1T-SM-051-003	7.484	7/19/86	WATER	FIELD/TRIP BLANK	D1 WATER - FIELD/TRIP BLANK	7/14/86
SM1T-SM-SRF-003	1.733	7/19/86	WATER	FIELD/TRIP BLANK	D1 WATER - FIELD/TRIP BLANK	7/14/86
SM1T-SM-056-522	2.342	7/21/86	WATER	WASTE MANAGEMENT	DRUM SAMPLES FOR ON-SITE WASTE MANAGEMENT	7/22/86
SM1T-SM-056-522	8.398	7/21/86	WATER	WASTE MANAGEMENT	DRUM SAMPLES FOR ON-SITE WASTE MANAGEMENT	7/22/86
SM1T-SM-051-002	1032.886	7/23/86	WATER	DECOD FLUID	DECOD FLUID SAMPLE FROM SUMP IN PAD 1	7/23/86
PD1-01210 1/10 DILUT	6411.306	7/23/86	WATER	METHOD DUPLICATE	METHOD DUPLICATE	7/23/86
SM1T-SM-051-002	998.724	7/23/86	WATER	DECOD FLUID	DECOD FLUID SAMPLE FROM SUMP IN PAD 2	7/23/86
SM1T-SM-052-002	6350.120	7/23/86	WATER			
SM1T-SM-052-003	1305.944	7/23/86	WATER			
PD1-01210 1/100 DILUT	4.223.000	7/23/86	WATER			
SM1T-SM-053-001 DILUT	94815.000	7/23/86	WATER			
SM1T-SM-053-001	157.982	7/23/86	WATER			
SM1T-SM-054	147.956	7/23/86	WATER			
SM1T-SM-054 DILUT	63.919	7/23/86	WATER			
SM1T-SM-055	550.370	7/23/86	WATER			
SM1T-SM-055 DILUT	949.324	7/23/86	WATER			
SM1T-SM-051	241.984	7/23/86	WATER			
SM1T-SM-051 DILUT	14.934	7/23/86	WATER			
SM1T-SM-052	14.934	7/23/86	WATER			
SM1T-SM-052 DILUT	110051.200	7/23/86	WATER			
SM1T-SM-053	94815.000	7/23/86	WATER			
SM1T-SM-053 DILUT	13.216	7/23/86	WATER			
SM1T-SM-054	938.916	7/23/86	WATER			
SM1T-SM-054 DILUT	307.960	7/23/86	WATER			
SM1T-SM-055	949.324	7/23/86	WATER			
SM1T-SM-055 DILUT	2936.320	7/23/86	WATER			
SM1T-SM-056	3.051	7/23/86	WATER			
SM1T-SM-056 DILUT	13.216	7/23/86	WATER			
SM1T-SM-057	938.916	7/23/86	WATER			
SM1T-SM-057 DILUT	46.336	7/23/86	WATER			
SM1T-SM-058	18.576	7/23/86	WATER			
SM1T-SM-058 DILUT	10.914	7/23/86	WATER			
SM1T-SM-059	72.882	7/23/86	WATER			
SM1T-SM-059 DILUT	11.547	7/23/86	WATER			
SM1T-SM-060	7.754	7/23/86	WATER			
SM1T-SM-060 DILUT	2.766	7/23/86	WATER			
SM1T-SM-061	1.744	7/23/86	WATER			
SM1T-SM-061 DILUT	1.744	7/23/86	WATER			

WATER SAMPLES

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DI WATER - FIELD/TRIP BLANK

DI WATER - FIELD/TRIP BLANK

SOUTHERN MARYLAND WOOD TREATING SITE  
REMEDIAL INVESTIGATION

UV FIELD SCREENING DATA - TOTAL PHAS

WATER SAMPLES

SAMPLE NUMBER	TOTAL PHAS IN SAMPLE, ppb	SAMPLING DATE	SAMPLE MATRIX	SITE ACTIVITY	SAMPLE DESCRIPTION	SAMPLE EXTRACTION DATE
SMNT-SGR-B02-001	8.394	8/05/86	WATER	RESIDENTIAL WELL	RESIDENTIAL WELL SAMPLE	8/06/86
SMNT-SGR-B03-001	11.092	8/05/86	WATER	RESIDENTIAL WELL	RESIDENTIAL WELL SAMPLE	8/06/86
SMNT-SGR-B04-001	14.392	8/05/86	WATER	TRIP DUPLICATE	TRIP DUPLICATE	8/06/86
SMNT-SGR-B05-001	12.192	8/05/86	WATER	RESIDENTIAL WELL	RESIDENTIAL WELL SAMPLE	8/06/86
SMNT-SGR-B06-001	8.892	8/05/86	WATER	RESIDENTIAL WELL	RESIDENTIAL WELL SAMPLE	8/06/86
SMNT-FBI-R07-001	8.394	8/05/86	WATER	RESIDENTIAL WELL	RESIDENTIAL WELL SAMPLE	8/06/86
SMNT-FBI-R08-001	7.294	8/05/86	WATER	RESIDENTIAL WELL	RESIDENTIAL WELL SAMPLE	8/06/86
SMNT-FBI-R09-001	8.394	8/05/86	WATER	LAB DUPLICATE	LAB DUPLICATE	8/06/86
SMNT-FBI-R10-001	18.488	8/05/86	WATER	RESIDENTIAL WELL	RESIDENTIAL WELL SAMPLE	8/06/86
SMNT-FBI-R11-001	15.990	8/05/86	WATER	RESIDENTIAL WELL	RESIDENTIAL WELL SAMPLE	8/06/86
SMNT-FBI-R12-001	10.594	8/05/86	WATER	TRIP BLANK	TRIP BLANK	8/06/86
SMNT-SGR-W01-001	38.466	8/06/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/06/86
SMNT-SGR-W02-001	126.808	8/07/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/07/86
SMNT-SGR-W03-001	20.952	8/07/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/07/86
SMNT-SGR-W04-001	680.270	8/08/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/08/86
ANV-7-001(D) 1/10 DILUT	782.520					
NGA-6-001(D) 1/10 DILUT	783.980					
SMNT-SGR-WW05-001	134.406	8/05/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/06/86
SMNT-SGR-WW06-001	14.288	8/03/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/06/86
SMNT-SGR-WW07-001	505.344	8/07/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/06/86
SMNT-SGR-WW08-001	422.860	8/05/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/06/86
SMNT-SGR-WW09-001	1549.766	8/05/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/06/86
WCB-001(D) 1/10 DILUT	519.960					
WCB-002(D) 1/10 DILUT	739.800					
SMNT-SGR-WW10-001	1656.200	8/05/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/06/86
SMNT-SGR-WW11-001	1145.740	8/06/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/06/86
SMNT-SGR-WW12-001	21.264	8/05/86	WATER	LAB DUPLICATE	LAB DUPLICATE	8/06/86
SMNT-SGR-WW13-001	160.872	8/05/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/06/86
SMNT-SGR-WW14-001	1331.498	8/05/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/06/86
SMNT-SGR-WW15-001	5038.700					
SMNT-SGR-WW16-001	91.062	8/07/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/06/86
SMNT-SGR-WW17-001	28.752	8/07/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/06/86
SMNT-SGR-WW18-001	78.454	8/08/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/06/86
SMNT-SGR-WW19-001	394.470	8/08/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/06/86
SMNT-SGR-WW20-001	36.140	8/14/86	WATER	TRIP BLANK	TRIP BLANK	8/06/86
SMNT-SGR-WW21-001	20.784	8/05/86	WATER	FIELD BLANK	FIELD BLANK	8/06/86
SMNT-SGR-WW22-001	58.096	8/05/86	WATER	MONITOR WELL	MONITOR WELL GROUND WATER	8/06/86
SMNT-SGR-WW23-001	173.846	8/06/86	WATER	TRIP BLANK	TRIP BLANK	8/06/86
SMNT-SGR-WW24-001	18.830	8/06/86	WATER	FIELD BLANK	FIELD BLANK	8/06/86
	49.898	8/05/86				

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SOUTHERN MARYLAND WOOD TREATING  
REMEDIAL INVESTIGATION

UV FIELD SERVICING DATA - TOTAL PHAS

SAMPLE NUMBER	SAMPLING DATE	TOTAL PHAS IN SAMPLE (ppm) (WATER SAMPLES, ppm)	SAMPLE MATRIX	SITE ACTIVITY	SAMPLE DEPTH, feet	SAMPLE DESCRIPTION
SMIT-SO-P01-002	6/21/86	1.075	SOIL	TEST PITS	0.35-1.0	
SMIT-SO-P01-003	6/21/86	0.219	SOIL	TEST PITS	1.0-2.0	
SMIT-SO-P01-004	6/21/86	0.305	SOIL	TEST PITS	2.0-3.0	
SMIT-SO-P01-005	6/23/86	0.218	SOIL	TEST PITS	3.0-4.0	
SMIT-SO-P01-006	6/23/86	0.619	SOIL	TEST PITS	5.0-6.0	
SMIT-SO-P01-007	6/23/86	1.389	SOIL	TEST PITS	6.0-7.0	
SMIT-SO-P01-008	6/23/86	0.169	SOIL	TEST PITS	8.0-9.0	
SMIT-SO-P01-009	6/23/86	0.161	SOIL	TEST PITS	14.0-15.0	
SMIT-SO-P02-001	6/23/86	0.392	SOIL	TEST PITS	0.0-0.4	
SMIT-SO-P02-002	6/23/86	0.307	SOIL	TEST PITS	1.0-1.3	
SMIT-SO-P02-003	6/23/86	0.237	SOIL	TEST PITS	1.0-2.0	
SMIT-SO-P02-004	6/23/86	0.543	SOIL	TEST PITS	2.0-3.0	
SMIT-SO-P02-005	6/23/86	0.407	SOIL	TEST PITS	3.0-4.0	
SMIT-SO-P02-006	6/23/86	0.379	SOIL	TEST PITS	5.0-6.0	
SMIT-SO-P02-007	6/23/86	0.134	SOIL	TEST PITS	7.0-8.0	
SMIT-SO-P02-008	6/23/86	0.326	SOIL	TEST PITS	10.0-11.0	
SMIT-SO-P03-002	6/23/86	28.511	SOIL	TEST PITS	0.5-1.0	
SMIT-SO-P03-003	6/23/86	1.451	SOIL	TEST PITS	1.0-2.0	
SMIT-SO-P03-004	6/23/86	0.151	SOIL	TEST PITS	2.0-3.0	
SMIT-SO-P03-005	6/23/86	1.479	SOIL	TEST PITS	3.0-4.0	
SMIT-SO-P03-006	6/23/86	6.755	SOIL	TEST PITS	4.0-5.0	
SMIT-SO-P03-007	6/23/86	1.382	SOIL	TEST PITS	6.0-7.0	
SMIT-SO-P03-008	6/23/86	6.301	SOIL	TEST PITS	7.0-8.0	
SMIT-SO-P03-009	6/24/86	4.389	SOIL	TEST PITS	0.0-0.25	
SMIT-SO-P03-010	6/24/86	0.925	SOIL	TEST PITS	1.0-2.0	
SMIT-SC-P04-001	6/24/86	0.538	SOIL	TEST PITS	0.0-0.33	
SMIT-SO-P04-002	6/24/86	43.433	SOIL	TEST PITS	0.38-1.0	
SMIT-SO-P04-003	6/24/86	76.735	SOIL	TEST PITS	1.0-2.0	
SMIT-SO-P04-004	6/24/86	1.162	SOIL	TEST PITS	2.0-3.0	
SMIT-SO-P04-005	6/24/86	1.911	SOIL	TEST PITS	3.0-4.0	
SMIT-SO-P04-006	6/24/86	2.186	SOIL	TEST PITS	7.0-8.0	
SMIT-SO-P04-008	6/24/86	0.925	SOIL	TEST PITS	1.0-2.0	
SMIT-SO-P05-002	6/24/86	1.036	SOIL	TEST PITS	1.0-2.0	
SMIT-SO-P05-003	6/24/86	11.854	SOIL	TEST PITS	0.0-0.5	
SMIT-SO-P05-004	6/24/86	4.324	SOIL	TEST PITS	0.5-1.0	
SMIT-SO-P05-005	6/24/86	3.623	SOIL	TEST PITS	1.0-2.0	
SMIT-SO-P05-006	6/24/86	1.165	SOIL	TEST PITS	2.0-3.0	
SMIT-SO-P05-007	6/24/86	0.970	SOIL	TEST PITS	3.0-4.0	
SMIT-SO-P05-008	6/24/86	6.892	SOIL	TEST PITS	7.0-8.0	
SMIT-SO-P05-009	6/24/86	0.687	SOIL	TEST PITS	15.0	
SMIT-SO-P05-010	6/24/86	5.972	SOIL	TEST PITS	15.0	
SMIT-SO-P05-001	6/24/86	31.221	SOIL	TEST PITS	0.0-0.5	
SMIT-SO-P05-002	6/24/86	11.293	SOIL	TEST PITS	0.5-1.0	
SMIT-SO-P05-003	6/24/86	1.659	SOIL	TEST PITS	1.0-2.0	
SMIT-SO-P06-004	6/24/86	1.641	SOIL	TEST PITS	2.0-3.0	
SMIT-SO-P06-005	6/24/86	0.970	SOIL	TEST PITS	3.0-4.0	
SMIT-SO-P06-006	6/24/86	0.744	SOIL	TEST PITS	6.0-7.0	
SMIT-SO-P06-007	6/24/86	1.037	SOIL	TEST PITS	9.0-10.0	
SMIT-SO-P06-008	6/24/86	6.519	SOIL	TEST PITS	15.0	
SMIT-SO-P07-001	6/25/86	48.322	SOIL	TEST PITS	0.0-0.5	
WT-SO-P07-002	7-001 1/10 DILUTION	105.920	SOIL	TEST PITS	0.5-1.0	
WT-SO-P07-003	7-002 1/10 DILUTION	57.072	SOIL	TEST PITS	1.0-2.0	
WT-SO-P07-004	WT-SO-F07-003	55.742	SOIL	TEST PITS	2.0-3.0	
WT-SO-F07-005	WT-SO-F07-006	1.667	SOIL	TEST PITS	3.0-4.0	
WT-SO-F07-007	WT-SO-F07-007	0.551	SOIL	TEST PITS	6.0-7.0	
WT-SO-F07-008	WT-SO-F07-008	6.676	SOIL	TEST PITS	9.0-10.0	
WT-SO-F07-009	WT-SO-F07-009	0.775	SOIL	TEST PITS	10.0-11.0	
WT-SO-F07-010	WT-SO-F07-010	0.765	SOIL	TEST PITS	11.0	

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MARYLAND WOOD TREATING

VOLUME 10 NUMBER 10 • NOVEMBER 1998

TEST PILL SAMPLES

SAMPLE NUMBER	SAMPLING DATE	TOTAL PHAS IN SAMPLE (ppm) WATER SAMPLES, ppm	SAMPLE MATRIX	SAMPLE DESCRIPTION	
				SITE ACTIVITY	SAMPLE DEPTH, feet
WT-50-P08-001	6/25/86	5.417	SOIL	TEST PTS	0.0-0.5
WT-50-P08-002	6/25/86	5826.184	SOIL	TEST PTS	0.5-1.0
WT-50-P08-003	6/25/86	13396.466	SOIL	TEST PTS	1.0-2.0
WT-50-P08-004	6/25/86	106.101	SOIL	TEST PTS	2.0-3.0
WT-50-P08-005	6/25/86	23.793	SOIL	TEST PTS	3.0-4.0
WT-50-P08-006	6/25/86	46.216	SOIL	TEST PTS	4.0-7.0
WT-50-P08-007	6/25/86	95.068	SOIL	TEST PTS	7.0-8.0
WT-50-P08-008	6/25/86	1.025	SOIL	TEST PTS	10.0
WT-50-P08-009	6/25/86	19.272	SOIL		
WT-50-P08-010	6/25/86	77.238	SOIL		
WT-50-P08-011	6/25/86	99.556	SOIL		
WT-50-P09-001	6/25/86	14.009	SOIL	TEST PTS	0.0-0.5
WT-50-P09-002	6/25/86	2787.877	SOIL	TEST PTS	0.5-1.0
WT-50-P09-003	6/25/86	76.174	SOIL	TEST PTS	1.0-2.0
WT-50-P09-004	6/25/86	88.824	SOIL	TEST PTS	2.0-3.0
WT-50-P09-005	6/25/86	77.987	SOIL	TEST PTS	3.0-4.0
WT-50-P09-006	6/25/86	96.838	SOIL	TEST PTS	4.0-5.0
WT-50-P09-007	6/25/86	76.356	SOIL	TEST PTS	5.0-6.0
WT-50-P09-008	6/25/86	19.301	SOIL	TEST PTS	13.0
WT-50-P09-009	6/25/86	3.745	SOIL		
WT-50-P09-010	6/25/86	11.506	SOIL		
WT-50-P10-001	6/25/86	34.586	SOIL	TEST PTS	0.0-0.5
WT-50-P10-002	6/25/86	675.783	SOIL	TEST PTS	0.5-1.0
WT-50-P10-003	6/25/86	19.211	SOIL	TEST PTS	1.0-2.0
WT-50-P10-004	6/25/86	3527.071	SOIL	TEST PTS	2.0-3.0
WT-50-P10-005	6/25/86	3519.574	SOIL	TEST PTS	3.0-4.0
WT-50-P10-006	6/25/86	212.458	SOIL	TEST PTS	4.5
WT-50-P10-007	6/25/86	5017.073	SOIL	TEST PTS	10.0
WT-50-P10-008	6/25/86	5815.978	SOIL		
WT-50-P11-001	6/25/86	40.015	SOIL	TEST PTS	0.0-0.5
WT-50-P11-002	6/25/86	66.049	SOIL	TEST PTS	0.5-1.0
WT-50-P11-003	6/25/86	21.035	SOIL	TEST PTS	1.0-2.0
WT-50-P11-004	6/25/86	1.270	SOIL	TEST PTS	2.0-3.0
WT-50-P11-005	6/25/86	1.696	SOIL	TEST PTS	3.0-4.0
WT-50-P11-006	6/25/86	0.446	SOIL	TEST PTS	4.0
WT-50-P11-007	6/25/86	0.322	SOIL	TEST PTS	10.5
WT-50-P11-008	6/25/86	0.520	SOIL	TEST PTS	13.5-14.0
WT-50-P11-009	6/25/86	6.450			
WT-50-P12-001	6/26/86	36.002	SOIL	TEST PTS	0.0-0.5
WT-50-P12-002	6/26/86	12.143	SOIL	TEST PTS	0.5-1.0
WT-50-P12-003	6/26/86	41.442	SOIL	TEST PTS	1.0-2.0
WT-50-P12-004	6/26/86	5259.167	SOIL	TEST PTS	2.0-3.0
WT-50-P12-005	6/26/86	6.449	SOIL	TEST PTS	3.
WT-50-P12-006	6/26/86	11.238			
WT-50-P12-007	6/26/86	98.596			
WT-50-P12-008	6/26/86	92.555			
WT-50-P12-009	6/26/86	51.279			
WT-50-P12-010	6/26/86	1.647			
WT-50-P12-011	6/26/86	1.555			
WT-50-P12-012	6/26/86	1.555			
WT-50-P12-013	6/26/86	1.555			
WT-50-P12-014	6/26/86	1.555			
WT-50-P12-015	6/26/86	1.555			
WT-50-P12-016	6/26/86	1.555			
WT-50-P12-017	6/26/86	1.555			
WT-50-P12-018	6/26/86	1.555			
WT-50-P12-019	6/26/86	1.555			
WT-50-P12-020	6/26/86	1.555			
WT-50-P12-021	6/26/86	1.555			
WT-50-P12-022	6/26/86	1.555			
WT-50-P12-023	6/26/86	1.555			
WT-50-P12-024	6/26/86	1.555			
WT-50-P12-025	6/26/86	1.555			
WT-50-P12-026	6/26/86	1.555			
WT-50-P12-027	6/26/86	1.555			
WT-50-P12-028	6/26/86	1.555			
WT-50-P12-029	6/26/86	1.555			
WT-50-P12-030	6/26/86	1.555			
WT-50-P12-031	6/26/86	1.555			
WT-50-P12-032	6/26/86	1.555			
WT-50-P12-033	6/26/86	1.555			
WT-50-P12-034	6/26/86	1.555			
WT-50-P12-035	6/26/86	1.555			
WT-50-P12-036	6/26/86	1.555			
WT-50-P12-037	6/26/86	1.555			
WT-50-P12-038	6/26/86	1.555			
WT-50-P12-039	6/26/86	1.555			
WT-50-P12-040	6/26/86	1.555			
WT-50-P12-041	6/26/86	1.555			
WT-50-P12-042	6/26/86	1.555			
WT-50-P12-043	6/26/86	1.555			
WT-50-P12-044	6/26/86	1.555			
WT-50-P12-045	6/26/86	1.555			
WT-50-P12-046	6/26/86	1.555			
WT-50-P12-047	6/26/86	1.555			
WT-50-P12-048	6/26/86	1.555			
WT-50-P12-049	6/26/86	1.555			
WT-50-P12-050	6/26/86	1.555			
WT-50-P12-051	6/26/86	1.555			
WT-50-P12-052	6/26/86	1.555			
WT-50-P12-053	6/26/86	1.555			
WT-50-P12-054	6/26/86	1.555			
WT-50-P12-055	6/26/86	1.555			
WT-50-P12-056	6/26/86	1.555			
WT-50-P12-057	6/26/86	1.555			
WT-50-P12-058	6/26/86	1.555			
WT-50-P12-059	6/26/86	1.555			
WT-50-P12-060	6/26/86	1.555			
WT-50-P12-061	6/26/86	1.555			
WT-50-P12-062	6/26/86	1.555			
WT-50-P12-063	6/26/86	1.555			
WT-50-P12-064	6/26/86	1.555			
WT-50-P12-065	6/26/86	1.555			
WT-50-P12-066	6/26/86	1.555			
WT-50-P12-067	6/26/86	1.555			
WT-50-P12-068	6/26/86	1.555			
WT-50-P12-069	6/26/86	1.555			
WT-50-P12-070	6/26/86	1.555			
WT-50-P12-071	6/26/86	1.555			
WT-50-P12-072	6/26/86	1.555			
WT-50-P12-073	6/26/86	1.555			
WT-50-P12-074	6/26/86	1.555			
WT-50-P12-075	6/26/86	1.555			
WT-50-P12-076	6/26/86	1.555			
WT-50-P12-077	6/26/86	1.555			
WT-50-P12-078	6/26/86	1.555			
WT-50-P12-079	6/26/86	1.555			
WT-50-P12-080	6/26/86	1.555			
WT-50-P12-081	6/26/86	1.555			
WT-50-P12-082	6/26/86	1.555			
WT-50-P12-083	6/26/86	1.555			
WT-50-P12-084	6/26/86	1.555			
WT-50-P12-085	6/26/86	1.555			
WT-50-P12-086	6/26/86	1.555			
WT-50-P12-087	6/26/86	1.555			
WT-50-P12-088	6/26/86	1.555			
WT-50-P12-089	6/26/86	1.555			
WT-50-P12-090	6/26/86	1.555			
WT-50-P12-091	6/26/86	1.555			
WT-50-P12-092	6/26/86	1.555			
WT-50-P12-093	6/26/86	1.555			
WT-50-P12-094	6/26/86	1.555			
WT-50-P12-095	6/26/86	1.555			
WT-50-P12-096	6/26/86	1.555			
WT-50-P12-097	6/26/86	1.555			
WT-50-P12-098	6/26/86	1.555			
WT-50-P12-099	6/26/86	1.555			
WT-50-P12-100	6/26/86	1.555			
WT-50-P12-101	6/26/86	1.555			
WT-50-P12-102	6/26/86	1.555			
WT-50-P12-103	6/26/86	1.555			
WT-50-P12-104	6/26/86	1.555			
WT-50-P12-105	6/26/86	1.555			
WT-50-P12-106	6/26/86	1.555			
WT-50-P12-107	6/26/86	1.555			
WT-50-P12-108	6/26/86	1.555			
WT-50-P12-109	6/26/86	1.555			
WT-50-P12-110	6/26/86	1.555			
WT-50-P12-111	6/26/86	1.555			
WT-50-P12-112	6/26/86	1.555			
WT-50-P12-113	6/26/86	1.555			
WT-50-P12-114	6/26/86	1.555			
WT-50-P12-115	6/26/86	1.555			
WT-50-P12-116	6/26/86	1.555			
WT-50-P12-117	6/26/86	1.555			
WT-50-P12-118	6/26/86	1.555			
WT-50-P12-119	6/26/86	1.555			
WT-50-P12-120	6/26/86	1.555			
WT-50-P12-121	6/26/86	1.555			
WT-50-P12-122	6/26/86	1.555			
WT-50-P12-123	6/26/86	1.555			
WT-50-P12-124	6/26/86	1.555			
WT-50-P12-125	6/26/86	1.555			
WT-50-P12-126	6/26/86	1.555			
WT-50-P12-127	6/26/86	1.555			
WT-50-P12-128	6/26/86	1.555			
WT-50-P12-129	6/26/86	1.555			
WT-50-P12-130	6/26/86	1.555			
WT-50-P12-131	6/26/86	1.555			
WT-50-P12-132	6/26/86	1.555			
WT-50-P12-133	6/26/86	1.555			
WT-50-P12-134	6/26/86	1.555			
WT-50-P12-135	6/26/86	1.555			
WT-50-P12-136	6/26/86	1.555			
WT-50-P12-137	6/26/86	1.555			
WT-50-P12-138	6/26/86	1.555			
WT-50-P12-139	6/26/86	1.555			
WT-50-P12-140	6/26/86	1.555			
WT-50-P12-141	6/26/86	1.555			
WT-50-P12-142	6/26/86	1.555			
WT-50-P12-143	6/26/86	1.555			
WT-50-P12-144	6/26/86	1.555			
WT-50-P12-145	6/26/86	1.555			
WT-50-P12-146	6/26/86	1.555			
WT-50-P12-147	6/26/86	1.555			
WT-50-P12-148	6/26/86	1.555			
WT-50-P12-149	6/26/86	1.555			
WT-50-P12-150	6/26/86	1.555			
WT-50-P12-151	6/26/86	1.555			
WT-50-P12-152	6/26/86	1.555			
WT-50-P12-153	6/26/86	1.555			
WT-50-P12-154	6/26/86	1.555			
WT-50-P12-155	6/26/86	1.555			
WT-50-P12-156	6/26/86	1.555			
WT-50-P12-157	6/26/86	1.555			
WT-50-P12-158	6/26/86	1.555			
WT-50-P12-159	6/26/86	1.555			
WT-50-P12-160	6/26/86	1.555			
WT-50-P12-161	6/26/86	1.555			
WT-50-P12-162	6/26/86	1.555			
WT-50-P12-163	6/26/86	1.555			
WT-50-P12-164	6/26/86	1.555			
WT-50-P12-165	6/26/86	1.555			
WT-50-P12-166	6/26/86	1.555			
WT-50-P12-167	6/26/86	1.555			
WT-50-P12-168	6/26/86	1.555			
WT-50-P12-169	6/26/86	1.555			
WT-50-P12-170	6/26/86	1.555			
WT-50-P12-171	6/26/86	1.555			
WT-50-P12-172	6/26/86	1.555			</td

SOUTHERN MARYLAND WOOD TREATING  
REMEDIAL INVESTIGATION

UV FIELD SCREENING DATA - TOTAL PHAs

SAMPLE NUMBER	SAMPLING DATE	TOTAL PHAs IN SAMPLE, ppm (WATER SAMPLES, ppm)	SAMPLE MATRIX	SITE ACTIVITY	SAMPLE DEPTH, feet	SAMPLE DESCRIPTION
SM1-SO-P13-001	6/26/86	3916.919	SOIL	TEST PITS	0.0-0.5	
P13-001 1/1000 DILUT	6/26/86	15397.579	SOIL	TEST PITS	0.5-1.5	
P13-002 1/1000 DILUT	6/26/86	462.559	SOIL	TEST PITS	1.5-2.0	
SM1-SO-P13-003	6/26/86	86.938	SOIL	TEST PITS	2.0-3.0	
P13-003 1/100 DILUT	6/26/86	54.231	SOIL	TEST PITS	3.0-4.0	
SM1-SO-P13-004	6/26/86	31.793	SOIL			
P13-004 1/100 DILUT	6/26/86	158.084	SOIL	TEST PITS	9.5	
SM1-SO-P13-005	6/26/86	62.399	SOIL	TEST PITS	7777?	
P13-005 1/100 DILUT	6/26/86	1.758	SOIL	TEST PITS	14.5	
SM1-SO-P13-007	6/26/86	5.175	SOIL	TEST PITS		
SM1-SO-P13-009	6/26/86					
SM1-SO-P14-001	6/26/86	30.919	SOIL	TEST PITS	0.0-0.5	
SM1-SO-P14-002	6/26/86	10.611	SOIL	TEST PITS	0.5-1.0	
SM1-SO-P14-003	6/26/86	14.031	SOIL	TEST PITS	1.0-2.0	
SM1-SO-P14-004	6/26/86	5.511	SOIL	TEST PITS	2.0-3.0	
SM1-SO-P14-005	6/26/86	17.517	SOIL	TEST PITS	3.0-4.0	
SM1-SO-P14-006	6/26/86	1.839	SOIL	TEST PITS	4.0-5.0	
SM1-SO-P14-007	6/26/86	3.037	SOIL	TEST PITS	8.0	
SM1-SO-P14-008	6/26/86	1.892	SOIL	TEST PITS	11.0	
SM1-SO-P15-001	6/26/86	2.610	SOIL	TEST PITS	0.0-0.5	
SM1-SO-P15-002	6/26/86	2.147	SOIL	TEST PITS	0.5-1.0	
SM1-SO-P15-003	6/26/86		SOIL	TEST PITS	1.0-2.0	
P15-003 1/1000 DILUT						
P15-002 1/10000 DILUT						
SM1-SO-P15-004	6/26/86	265364.086	SOIL	TEST PITS	2.0-3.0	
P15-004 1/100 DILUT	6/26/86	74.499	SOIL	TEST PITS	3.0-4.0	
SM1-SO-P15-005	6/26/86	201.572	SOIL	TEST PITS	7777?	
P15-005 1/100 DILUT	6/26/86	252.796	SOIL	TEST PITS	10.0	
SM1-SO-P15-006	6/26/86	655.882	SOIL	TEST PITS	12.0	
P15-006 1/100 DILUT	6/26/86	3.331	SOIL			
SM1-SO-P15-007	6/26/86					
P15-007 1/100 DILUT	6/26/86					
SM1-SO-P15-008	6/26/86					
P15-008 1/100 DILUT	6/26/86					
SM1-SO-P16-001	6/27/86	5.424	SOIL	TEST PITS	0.0-0.5	
SM1-SO-P16-002	6/27/86	126.738	SOIL	TEST PITS	0.5-1.0	
P16-002 1/10 DILUT	6/27/86	138.271	SOIL	TEST PITS	1.0-2.0	
SM1-SO-P16-003	6/27/86	30.655	SOIL	TEST PITS	2.0-3.0	
P16-003 1/10 DILUT	6/27/86	52.253	SOIL	TEST PITS	3.0-4.0	
SM1-SO-P16-004	6/27/86	48.909	SOIL	TEST PITS	5.0	
P16-004 1/10 DILUT	6/27/86	70.857	SOIL	TEST PITS	0.0-0.5	
SM1-SO-P16-005	6/27/86	67.149	SOIL	TEST PITS	0.5-1.0	
P16-005 1/10 DILUT	6/27/86	27906.383	SOIL	TEST PITS	1.0-2.0	
SM1-SO-P17-001	6/27/86	64818.700	SOIL	TEST PITS	2.0-3.0	
P17-001 1/1000 DILU	6/27/86	147618.577	SOIL	TEST PITS	3.0-4.0	
SM1-SO-P17-002	6/27/86	14.392	SOIL	TEST PITS	4.5	
P17-002 1/1000 DILU	6/27/86					
SM1-SO-P17-003	6/27/86					
P17-003 1/100 DILU	6/27/86					
SM1-SO-P17-004	6/27/86					
P17-004 1/100 DILU	6/27/86					
SM1-SO-P17-005	6/27/86					
P17-005 1/100 DILU	6/27/86					
SM1-SO-P17-006	6/27/86					
P17-006 1/1000 DILU	6/27/86					
SM1-SO-P17-007	6/27/86					
P17-007 1/1000 DILU	6/27/86					
SM1-SO-P18-001	6/27/86	1.671	SOIL	TEST PITS	0.0-0.5	
P18-001 1/100 DILU	6/27/86	5.546	SOIL	TEST PITS	0.5-1.0	
SM1-SO-P18-002	6/27/86	31.165	SOIL	TEST PITS	1.0-2.0	
P18-002 1/100 DILU	6/27/86	22.555	SOIL	TEST PITS	2.0-3.0	
SM1-SO-P18-003	6/27/86	2.441	SOIL	TEST PITS	3.0-4.0	
P18-003 1/100 DILU	6/27/86	1.541	SOIL	TEST PITS	4.5	

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SOUTHERN MARYLAND WOOD TREATING  
REMEDIAL INVESTIGATION

UV FIELD SCREENING DATA - TOTAL PHAs

TEST PIT SAMPLES

SAMPLE NUMBER	SAMPLING DATE	TOTAL PHAs IN SAMPLE, ppm (WATER SAMPLES, ppb)	SAMPLE MATRIX	SITE ACTIVITY	SAMPLE DEPTH, feet	SAMPLE DESCRIPTION
SMW1-SU-P19-001	6/28/96	54.895	SOIL	TEST PIT	0.0-0.5	
SMW1-SU-P19-002	6/28/96	4.813	SOIL	TEST PIT	0.5-1.0	
SMW1-SU-P19-003	6/28/96	1.512	SOIL	TEST PIT	1.0-2.0	
SMW1-SU-P19-004	6/28/96	2.333	SOIL	TEST PIT	2.0-3.0	
SMW1-SU-P19-005	6/28/96	0.977	SOIL	TEST PIT	3.0-4.0	
SMW1-SU-P19-006	6/28/96	1.157	SOIL	TEST PIT	4.0-WATER	
SMW1-SU-P20-001	6/28/96	48.496	SOIL	TEST PIT	0.0-0.5	
SMW1-SU-P20-002	6/28/96	4.866	SOIL	TEST PIT	0.5-1.0	
SMW1-SU-P20-003	6/28/96	10.395	SOIL	TEST PIT	1.0-2.0	
SMW1-SU-P20-004	6/28/96	10.511	SOIL	TEST PIT	2.0-3.0	
SMW1-SU-P20-005	6/28/96	5.615	SOIL	TEST PIT	3.0-4.0	
SMW1-SU-P20-006	6/28/96	2.173	SOIL	TEST PIT	4.0-5.0	
SMW1-SU-P20-007	6/28/96	02.416	SOIL	TEST PIT	6.75	
SMW1-SU-P20-009	6/28/96	12.092	SOIL	TEST PIT	—	
SMW1-SU-P21-001	7/1/96	25.588	SOIL	TEST PIT	0.0-0.5	
SMW1-SU-P21-002	7/1/96	23.919	SOIL	TEST PIT	0.5-1.0	
SMW1-SU-P21-003	7/1/96	7.890	SOIL	TEST PIT	1.0-2.0	
SMW1-SU-P21-004	7/1/96	7.641	SOIL	TEST PIT	2.0-3.0	
SMW1-SU-P21-005	7/1/96	0.859	SOIL	TEST PIT	3.0-4.0	
SMW1-SU-P21-006	7/1/96	0.810	SOIL	TEST PIT	5.5	
SMW1-SU-P21-007	7/1/96	0.782	SOIL	TEST PIT	???	
SMW1-SU-P21-008	7/1/96	1.553	SOIL	TEST PIT	11.0	
		0.802	SOIL	TEST PIT		
SMW1-SU-P22-001	7/1/96	1.710	SOIL	TEST PIT	0.0-0.5	
SMW1-SU-P22-002	7/1/96	0.722	SOIL	TEST PIT	0.5-1.0	
SMW1-SU-P22-003	7/1/96	0.444	SOIL	TEST PIT	1.0-2.0	
SMW1-SU-P22-004	7/1/96	0.391	SOIL	TEST PIT	2.0-3.0	
SMW1-SU-P22-005	7/1/96	0.721	SOIL	TEST PIT	3.0-4.0	
SMW1-SU-P22-006	7/1/96	0.721	SOIL	TEST PIT	4.0	
SMW1-SU-P22-007	7/1/96	0.693	SOIL	TEST PIT	11.0	
		0.693	SOIL	TEST PIT		
SMW1-SU-P23-001	7/1/96	6.268	SOIL	TEST PIT	0.0-0.5	
SMW1-SU-P23-002	7/1/96	1.771	SOIL	TEST PIT	0.5-1.0	
SMW1-SU-P23-003	7/1/96	0.637	SOIL	TEST PIT	1.0-2.0	
SMW1-SU-P23-004	7/1/96	4.467	SOIL	TEST PIT	2.0-3.0	
SMW1-SU-P23-005	7/1/96	0.454	SOIL	TEST PIT	3.0-4.0	
SMW1-SU-P23-006	7/1/96	0.802	SOIL	TEST PIT	6.0	
SMW1-SU-P23-007	7/1/96	0.559	SOIL	TEST PIT	11.0	
		0.559	SOIL	TEST PIT		
SMW1-SU-P24-001	7/1/96	13.342	SOIL	TEST PIT	0.0-0.5	
SMW1-SU-P24-002	7/1/96	11.864	SOIL	TEST PIT	0.5-1.0	
SMW1-SU-P24-003	7/1/96	100.642	SOIL	TEST PIT	1.0-2.0	
P24-005 1/10 ELUT	7/1/96	656.594	SOIL	TEST PIT	2.0-3.0	
SMW1-SU-P24-004 1/10 ELUT	7/1/96	125.677	SOIL	TEST PIT	3.0-4.0	
P24-004 1/10 ELUT	7/1/96	666.777	SOIL	TEST PIT	4.0	
SMW1-SU-P24-005	7/1/96	5.333	SOIL	TEST PIT	11.0	
P24-005 1/10 ELUT	7/1/96	1341.616	SOIL	TEST PIT	11.0	
SMW1-SU-P24-006	7/1/96	1703.264	SOIL	TEST PIT	11.0	
SMW1-SU-P24-007	7/1/96	11.064	SOIL	TEST PIT	11.0	
SMW1-SU-P24-008	7/1/96	51.114	SOIL	TEST PIT	11.0	
P24-018 1/10 ELUT	7/1/96	91.077	SOIL	TEST PIT	11.0	
		666.016	SOIL	TEST PIT		

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## SEDIMENT SAMPLES

SOUTHERN MARYLAND WOOD TREATING  
REMEDIAL INVESTIGATION

## WY FIELD SCREENING DATA - TOTAL PFAS

## SEDIMENT SAMPLES FROM UNMANAGED TRIBUTARY AND OLD TOM'S RIVER

SAMPLE NUMBER	SAMPLING DATE	TOTAL PFAS IN SAMPLE, ppb	SAMPLE MATRIX	SITE ACTIVITY	SAMPLE DEPTH, feet	SAMPLE DESCRIPTION	
SMW-SD-109-001	6/24/86	5,498	SEDIMENT	EAST TRIBUTARY	0.0-0.5	CHARGE SAND	
SMW-SD-109-001	6/24/86	5,244	SEDIMENT	EAST TRIBUTARY	0.0-0.5	SAND	
SMW-SD-109-002	6/24/86	3,825	SEDIMENT	EAST TRIBUTARY	0.0-0.5	SAND	
SMW-SD-110-001	6/24/86	2,879	SEDIMENT	EAST TRIBUTARY	0.0-0.5	SAND	
SMW-SD-111-001	6/24/86	4,092	SEDIMENT	EAST TRIBUTARY	0.0-0.5	SAND	
SMW-SD-112-001	6/24/86	44,795	SEDIMENT	EAST TRIBUTARY	0.0-0.5	SILTY SAND	
SMW-SD-112-002	6/24/86	38,188	SEDIMENT	EAST TRIBUTARY	0.5-1.0	SAND	
SMW-SD-101-001	6/25/86	7,251	SEDIMENT	EAST TRIBUTARY	0.0-0.5	SANDY CLAY 1000 FEET FROM CONFLUENCE	
SMW-SD-101-002	6/25/86	7,018	SEDIMENT	EAST TRIBUTARY	0.0-0.5	CLAY, STATION JUST OUTSIDE SITE FENCE	
SMW-SD-102-001	6/25/86	33,595	SEDIMENT	EAST TRIBUTARY	0.0-0.5	SAND AND GRAVEL	
SMW-SD-102-002	6/25/86	26,801	SEDIMENT	EAST TRIBUTARY	0.0-0.5	REPLICATE OF SAMPLE SMW-SD-102-002	
SMW-SD-103-001	6/25/86	1,937	SEDIMENT	EAST TRIBUTARY	0.0-0.5	SAND AND GRAVEL	
SMW-SD-103-002	6/25/86	1,937	SEDIMENT	EAST TRIBUTARY	0.0-0.5	SAND AND GRAVEL	
SMW-SD-104-001	6/25/86	3,505	SEDIMENT	EAST TRIBUTARY	0.0-0.5	SAND, GRAVEL AND SILT	
SMW-SD-105-001	6/25/86	3,121	SEDIMENT	EAST TRIBUTARY	0.0-0.5	SILTY SAND	
SMW-SD-105-002	6/25/86	25,754	SEDIMENT	EAST TRIBUTARY	0.0-0.5	SAND	
SMW-SD-106-001	6/25/86	19,624	SEDIMENT	EAST TRIBUTARY	0.0-0.5	SILTY SAND	
SMW-SD-107-001	6/25/86	1,656	SEDIMENT	EAST TRIBUTARY	0.0-0.5	SAND	
SMW-SD-107-002	6/25/86	1,814	SEDIMENT	EAST TRIBUTARY	0.0-0.5	SILTY SAND	
SMW-SD-121-001	6/25/86	3,661	SEDIMENT	EAST TRIBUTARY	0.5-1.0	SAND 1500 FEET FROM LOWER POND	
SMW-SD-121-002	6/25/86	2,416	SEDIMENT	WEST TRIBUTARY	0.0-0.5	SAND	
SMW-SD-122-001	6/25/86	2,223	SEDIMENT	WEST TRIBUTARY	0.0-0.5	SANDY CLAY 1000 FEET FROM LOWER POND	
SMW-SD-123-001	6/25/86	1,421	SEDIMENT	WEST TRIBUTARY	0.0-0.5	SAND	
SMW-SD-123-002	6/25/86	4,923	SEDIMENT	WEST TRIBUTARY	0.0-0.5	RED CLAY AND SAND 500 FEET FROM LOWER POND	
SMW-SD-124-001	6/25/86	6,126	SEDIMENT	WEST TRIBUTARY	0.0-0.5	RED CLAY AND SAND	
SMW-SD-124-002	6/25/86	5,431	SEDIMENT	WEST TRIBUTARY	0.0-0.5	SILT FROM LOWER POND	
SMW-SD-125-001	6/25/86	8,108	SEDIMENT	WEST TRIBUTARY	0.0-0.5	SILT FROM LOWER POND	
SMW-SD-114-001	6/26/86	7,267	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-115-001	6/26/86	29,625	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-115-002	6/26/86	16,551	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-116-001	6/26/86	16,549	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-117-001	6/26/86	20,583	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-117-002	6/26/86	16,819	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-118-001	6/26/86	2,957	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-119-001	6/26/86	4,400	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-119-002	6/26/86	3,737	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-120-001	6/26/86	1,418	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-120-002	6/26/86	1,262	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-110-001	6/26/86	73,844	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-111-001	6/26/86	22,701	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-111-002	6/26/86	56,581	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
C142-001D1	1/1/000 DILUT	6/27/86	82,193	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
C142-001D2	1/1/000 DILUT	6/27/86	26,366	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
SMW-SD-113-001	6/27/86	58,990	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-113-002	6/27/86	79,914	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-103-001	6/27/86	46,524	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-103-002	6/27/86	2,397	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-104-001	6/27/86	49,467	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-105-001	6/27/86	35,299	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-105-002	6/27/86	4,794	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-105-003	6/27/86	1,863	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-111-002	6/27/86	91,066	SEDIMENT	WEST TRIBUTARY	0.0-0.5	RUNOFF AREA	
TE5-0161	1/1/300 DILUT	6/27/86	38,679	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
SMW-SD-107-001	6/27/86	88,125	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-107-002	6/27/86	539,137	SEDIMENT	WEST TRIBUTARY	0.0-0.5	BANK SAMPLE	
C142-003	1/1/000 DILUT	6/27/86	4,660,195	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
SMW-SD-108-001	6/27/86	23,389	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-108-002	6/27/86	92,209	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
108-002D1	1/1/100 DILUT	6/27/86	183,571	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
SMW-SD-108-002D2	1/1/100 DILUT	71,696	SEDIMENT	WEST TRIBUTARY	0.0-0.5		
SMW-SD-108-003	1/1/100 DILUT	71,224	SEDIMENT	WEST TRIBUTARY	0.0-0.5		

SOUTHERN MARYLAND WOOD TREATING  
REMEDIAL INVESTIGATION

IW FIELD SCREENING DATA - TOTAL PHAS

SEDIMENT SAMPLES FROM UNMANAGED TRIBUTARY and OLD TOM'S RUN

SAMPLE NUMBER	SAMPLING DATE	TOTAL PHAS IN SAMPLE, ppm	SAMPLE MATRIX	SITE ACTIVITY	SAMPLE DEPTH, feet	SAMPLE DESCRIPTION
SMWT-SD-109-002	6/27/86	26.707	SEDIMENT	WEST TRIBUTARY	0.5-1.0	
SMWT-SD-100-001	6/27/86	46.25-076	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
100-001D-1/100 DILUT		66.999	SEDIMENT	WEST TRIBUTARY	0.5-1.0	
SMWT-SD-105-002	6/27/86	869.610	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
100-002D-1/100 DILUT		8229.460	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
SMWT-SD-101-001	6/27/86	36.957	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
SMWT-SD-102-001	6/27/86	3.670	SEDIMENT	WEST TRIBUTARY	0.51-1.0	
SMWT-SD-102-002	6/27/86	64.308	SEDIMENT	WEST TRIBUTARY	0.0-0.3	
SMWT-SD-112-010	7/8/86	219.392	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
SMWT-SD-112-011	7/8/86	50.550	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
SMWT-SD-114-010	7/8/86	48.114	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
114-010 1/10 DILUT		180.374	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
SMWT-SD-119-010	7/8/86	4.670	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
SMWT-SD-124-010	7/8/86	18.539	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
SMWT-SD-124-000	7/8/86	12.098	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
SMWT-SD-125-010	7/8/86	104.678	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
125-010 1/10 DILUT		428.370	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
SMWT-SD-104-010	7/9/86	76.297	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
104-010 1/10 DILUT		59.641	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
SMWT-SD-1C7-010	7/9/86	82.504	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
1C7-010 1/10 DILUT		121.714	SEDIMENT	EAST TRIBUTARY	0.0-0.5	
SMWT-SD-1C2-010	7/9/86	29.150	SEDIMENT	EAST TRIBUTARY	0.0-0.5	
SMWT-SD-1C8-010	7/9/86	2.587	SEDIMENT	EAST TRIBUTARY	0.0-0.5	
SMWT-SD-1J2-010	7/9/86	46.010	SEDIMENT	POND COMPOSITE	0.0-0.5	
SMWT-SD-PC1-110	7/10/86	5.301	SEDIMENT	SEAFAR COMPOSITE	0.0-0.5	
SMWT-SD-SC1-010	7/10/86	98.488	SEDIMENT	WEST TRIBUTARY	0.0-0.5	
SC1-101 1/10 DILUT		191.048	SEDIMENT	EAST TRIBUTARY	0.0-0.5	
SMWT-SD-1C1-010	7/10/86	1.659	ERR	EAST TRIBUTARY	0.0-0.5	
SMWT-SD-101-010	7/10/86	3.77	SEDIMENT	EAST TRIBUTARY	0.0-0.5	
SMWT-SD-105-010	7/10/86	0.722	SEDIMENT	EAST TRIBUTARY	0.5-1.0	
SMWT-SD-105-011	7/10/86	16.181	SEDIMENT	EAST TRIBUTARY	0.0-0.5	
SMWT-SD-130-010	7/10/86	4.940	SEDIMENT	EAST TRIBUTARY	0.0-0.5	
SMWT-SD-401-010	7/11/86	21.571	SEDIMENT	TREE SAMPLES	0.0-0.5	BROOKS RUN and MACINTOSH CREEK
SMWT-SD-401-010-D	7/11/86	0.780	SEDIMENT	CREEK SAMPLES	0.0-0.5	BROOKS RUN and MACINTOSH CREEK - FIELD DUP
SMWT-SD-401-010-D	7/11/86	6.946	SEDIMENT	CREEK SAMPLES	0.0-0.5	BROOKS RUN and MACINTOSH CREEK
SMWT-SD-401-010	7/11/86	5.015	SEDIMENT	CREEK SAMPLES	0.0-0.5	BROOKS RUN and MACINTOSH CREEK
SMWT-SD-401-010	7/11/86	-0.251	SEDIMENT	CREEK SAMPLES	0.0-0.5	BROOKS RUN and MACINTOSH CREEK
SMWT-SD-401-010	7/11/86	0.049	SEDIMENT	CREEK SAMPLES	0.0-0.5	BROOKS RUN and MACINTOSH CREEK
SMWT-SD-401-010	7/11/86	-3.365	SEDIMENT	CREEK SAMPLES	0.0-0.5	BROOKS RUN and MACINTOSH CREEK

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**MONITOR WELL SAMPLES**

SOUTHERN MARYLAND WOOD TREATING  
REEDIN. INVESTIGATION

**UV FIELD SCREENING DATA - TOTAL PHAs**

**SOIL SAMPLES FROM MONITOR WELL INSTALLATION**

SAMPLE NUMBER	SAMPLING DATE	TOTAL PHAs IN SAMPLE, ppm	SAMPLE MATRIX	SITE ACTIVITY	SAMPLE DEPTH, feet	SAMPLE DESCRIPTION
SHM1-SO-MW08-001	6/17/86	0.84	SOIL	INSTAL. WELL	1.5-5.0	Br & gr clayey silt,damp M.
SHM1-SO-MW08-002	6/17/86	0.855	SOIL	INSTAL. WELL	8.5-10.0	Br & gr clayey silt, damp M.
SHM1-SO-MW08-003	6/17/86	2.287	SOIL	INSTAL. WELL	13.5-15.0	Br clayey silt, fine sand, moist M.
SHM1-SO-MW08-005	6/18/86	0.290	SOIL	INSTAL. WELL	20.0-22.0	Orange silty c-f sand, poorly graded, moist SW
SHM1-SO-MW08-006	6/18/86	0.521	SOIL	INSTAL. WELL	22.0-24.0	Br c-f sand, dry silt, well graded, sat SW
SHM1-SO-MW08-007	6/18/86	0.494	SOIL	INSTAL. WELL	24.0-26.0	Br c-f sand, dry silt, well graded, sat SW
SHM1-SO-MW08-008	6/18/86	0.425	SOIL	INSTAL. WELL	30.0-33.5	Br c-f sand, dry silt, well graded, sat SW
SHM1-SO-MW08-009	6/18/86	0.979	SOIL	INSTAL. WELL	32.5-34.0	Br & silty clay, high plast., moist CL
SHM1-SO-MW08-010	6/18/86	1.995	SOIL	INSTAL. WELL	34.0-35.5	Br & silty clay, high plast., moist CL
SHM1-SO-MW08-011	6/18/86	3.033	SOIL	INSTAL. WELL	35.5-37.0	Drt gr sil clay, c-f sand, moist, sat CH-DH
SHM1-SO-MW07-001	6/19/86	0.641	SOIL	INSTAL. WELL	5.0-6.5	Br & gr clayey silt to silty sand, damp SW
SHM1-SO-MW07-002	6/19/86	1.149	SOIL	INSTAL. WELL	20.0-21.5	White silty c-f sand, poorly graded, sat SW
SHM1-SO-MW08-001	6/20/86	40.213	SOIL	INSTAL. WELL	0.0-1.5	Br clayey/sandy silt, hard dry M.
SHM1-SO-MW08-002	6/20/86	2.482	SOIL	INSTAL. WELL	4.0-5.5	Rust orange e-f sand, poorly graded, damp SP
SHM1-SO-MW08-003	6/20/86	0.384	SOIL	INSTAL. WELL	9.0-10.5	Rust orange e-f sand, poorly graded, moist
SHM1-SO-MW08-004	6/20/86	0.365	SOIL	INSTAL. WELL	14.0-15.5	Rust orange e-f sand, poorly graded, moist-net
SHM1-SO-MW08-004D	6/20/86	0.663	SOIL	INSTAL. WELL	19.0-20.5	Rust orange e-f sand, poorly graded, wet
SHM1-SO-MW08-005	6/20/86	0.844	SOIL	INSTAL. WELL	24.0-25.5	Rust orange e-f sand, sil, poor graded, sat SP-SP
SHM1-SO-MW08-006	6/20/86	1.401	SOIL	INSTAL. WELL	26.0-27.5	Rust orange e-f sand, sil, poor graded, sat CL
SHM1-SO-MW08-007	6/20/86	86.273	SOIL	INSTAL. WELL	29.0-30.5	Br & silty clay, medium stiff, med plast, moist CL
SHM1-SO-MW08-008	6/20/86	70.556	SOIL			
SHM1-SO-MW08-009	6/25/86	41.923	SOIL	MONITOR WELL	27-29.0	
SHM1-SO-MW08-010	6/25/86	1.916	SOIL	MONITOR WELL	0.0-1.5	
SHM1-SO-MW10-001	6/28/86	0.888	SOIL	MONITOR WELL	5.0-6.5	
SHM1-SO-MW10-002	6/28/86	0.799	SOIL	MONITOR WELL	10.0-11.5	
SHM1-SO-MW10-003	6/28/86	0.812	SOIL	MONITOR WELL	15.0-16.5	
SHM1-SO-MW10-004	6/28/86	0.777	SOIL	MONITOR WELL	-	
SHM1-SO-MW10-005	6/28/86	0.754	SOIL	MONITOR WELL	25.0-26.5	
SHM1-SO-MW10-006A	6/28/86	0.982	SOIL	MONITOR WELL	26.5-27.0	
SHM1-SO-MW10-006B	6/28/86	0.506	SOIL	MONITOR WELL	27.0-28.0	
SHM1-SO-MW10-007	6/28/86	0.692	SOIL	MONITOR WELL	-	
SHM1-SO-MW10-008	6/28/86	2.212	SOIL	MONITOR WELL	-	
SHM1-SO-MW10-009	6/28/86					

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## SOIL BORING SAMPLES

SOUTHERN MARYLAND WFO TREATING  
RETRIAL INVESTIGATION

## IW FIELD SCREENING DATA - TOTAL PHOS

## SOIL BORINGS

SAMPLE NUMBER	SAMPLING DATE	TOTAL PHOS IN SAMPLE, ppm	SAMPLE MATRIX	SITE ACTIVITY	SAMPLE DEPTH, feet	SAMPLE DESCRIPTION
SMW-SO-001-001	7/9/86	10.760	SOIL	SOIL BORING	0.0-2.0	
SMW-SO-001-002	7/9/86	0.358	SOIL	SOIL BORING	2.0-4.0	
SMW-SO-001-003	7/9/86	0.515	SOIL	SOIL BORING	4.0-6.0	
SMW-SO-001-004	7/9/86	0.263	SOIL	SOIL BORING	4.0-8.0	
SMW-SO-001-005	7/9/86	0.277	SOIL	METHOD DUPLICATE		
SMW-SO-001-006	7/9/86	0.119	SOIL	SOIL BORING	8.0-10.0	
SMW-SO-001-007	7/9/86	0.768	SOIL	SOIL BORING	10.0-12.0	
SMW-SO-001-008	7/9/86	0.283	SOIL	SOIL BORING	12.0-14.0	
SMW-SO-001-009	7/9/86	0.242	SOIL	SOIL BORING	14.0-16.0	
SMW-SO-001-010	7/9/86	0.359	SOIL	SOIL BORING	16.0-18.0	
SMW-SO-001-011	7/9/86	0.247	SOIL	SOIL BORING	18.0-20.0	
SMW-SO-001-012	7/9/86	0.251	SOIL	SOIL BORING	20.0-22.0	
SMW-SO-001-013	7/9/86	0.223	SOIL	SOIL BORING	22.0-24.0	
SMW-SO-001-014	7/9/86	0.250	SOIL	SOIL BORING	24.0-26.0	
SMW-SO-001-015	7/9/86	1.205	SOIL	SOIL BORING	26.0-28.0	
SMW-SO-001-016	7/9/86	0.574	SOIL	SOIL BORING	28.0-30.0	
SMW-SO-001-017	7/9/86	0.381	SOIL	SOIL BORING	30.0-32.0	
SMW-SO-001-018	7/9/86	0.454	SOIL	SOIL BORING	32.0-34.0	
SMW-SO-001-019	7/9/86	0.460	SOIL	SOIL BORING	34.0-36.0	
SMW-SO-001-020	7/9/86	2.810	SOIL	SOIL BORING	36.0-38.0	
SMW-SO-001-021	7/9/86	0.352	SOIL	SOIL BORING	38.0-40.0	
B01-001-17/100 DILUT		-0.185	SOIL	SOIL BORING	0.0-2.0	
B02-001-17/100 DILUT	7/15/86	10281.01	SOIL	SOIL BORING		
B03-001-17/100 DILUT	7/15/86	52387.519	SOIL	SOIL BORING		
SMW-SO-002-001	7/15/86	0.943	SOIL	SOIL BORING	2.0-4.0	
SMW-SO-002-002	7/15/86	0.125	SOIL	SOIL BORING	4.0-6.0	
SMW-SO-002-003	7/15/86	-0.007	SOIL	SOIL BORING	6.0-8.0	
SMW-SO-002-004	7/15/86	0.316	SOIL	SOIL BORING	8.0-10.0	
B01-004-17/100 DILUT	7/15/86	-0.304	SOIL	SOIL BORING	10.0-12.0	
SMW-SO-003-005	7/15/86	0.263	SOIL	SOIL BORING	12.0-14.0	
SMW-SO-003-006	7/15/86	0.148	SOIL	SOIL BORING	14.0-16.0	
SMW-SO-003-007	7/15/86	1.165	SOIL	SOIL BORING	16.0-18.0	
SMW-SO-003-008	7/15/86	-0.145	SOIL	SOIL BORING	18.0-20.0	
SMW-SO-003-009	7/15/86	-0.064	SOIL	METHOD DUPLICATE		
SMW-SO-003-010	7/15/86	-0.107	SOIL	METHOD DUPLICATE		
SMW-SO-004-001	7/15/86	0.000	SOIL	SOIL BORING	0.0-2.0	
B01-001-17/100 DILUT	7/15/86	16371.242	SOIL	SOIL BORING	2.0-4.0	
B04-002-17/100 DILUT	7/15/86	22601.436	SOIL	METHOD DUPLICATE	4.0-6.0	
SMW-SO-001-003	7/15/86	53.975	SOIL	SOIL BORING	6.0-8.0	
SMW-SO-001-004	7/15/86	30.364	SOIL	SOIL BORING	8.0-10.0	
SMW-SO-004-005	7/15/86	1.658	SOIL	SOIL BORING	10.0-12.0	
SMW-SO-004-006	7/15/86	0.717	SOIL	SOIL BORING	12.0-14.0	
SMW-SO-004-007	7/15/86	-0.059	SOIL	SOIL BORING	14.0-16.0	
SMW-SO-005-008	7/15/86	0.161	SOIL	SOIL BORING	16.0-18.0	
SMW-SO-006-009	7/15/86	3.750	SOIL	SOIL BORING	18.0-20.0	
SMW-SO-007-010	7/15/86	0.000	SOIL	SOIL BORING	20.0-22.0	
SMW-SO-008-011	7/15/86	0.210	SOIL	SOIL BORING	22.0-24.0	
SMW-SO-008-012	7/15/86	0.052	SOIL	SOIL BORING	24.0-26.0	
SMW-SO-008-013	7/15/86	0.517	SOIL	SOIL BORING	26.0-28.0	
SMW-SO-008-014	7/15/86	0.167	SOIL	SOIL BORING	28.0-30.0	
SMW-SO-009-001	7/16/86	18.155	SOIL	SOIL BORING	0.0-2.0	
SMW-SO-009-002	7/16/86	0.478	SOIL	SOIL BORING	2.0-4.0	
SMW-SO-009-003	7/16/86	-0.16	SOIL	SOIL BORING	4.0-6.0	
SMW-SO-009-004	7/16/86	-0.181	SOIL	METHOD DUPLICATE		
SMW-SO-009-005	7/16/86	0.469	SOIL	SOIL BORING	6.0-8.0	
SMW-SO-009-006	7/16/86	-0.110	SOIL	METHOD DUPLICATE		
SMW-SO-005-007	7/16/86	3.755	SOIL	SOIL BORING	8.0-10.0	
SMW-SO-006-008	7/16/86	0.000	SOIL	SOIL BORING	10.0-12.0	
SMW-SO-007-009	7/16/86	0.210	SOIL	SOIL BORING	12.0-14.0	
SMW-SO-008-010	7/16/86	0.210	SOIL	SOIL BORING	14.0-16.0	
SMW-SO-008-011	7/16/86	0.517	SOIL	SOIL BORING	16.0-18.0	
SMW-SO-008-012	7/16/86	0.152	SOIL	SOIL BORING	18.0-20.0	
SMW-SO-009-013	7/16/86	18.155	SOIL	SOIL BORING	20.0-22.0	
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SMW-SO-001-011	7/15/86	0.152	SOIL	SOIL BORING	22.0-24.0	
SMW-SO-001-012	7/15/86	0.152	SOIL	SOIL BORING	24.0-26.0	
SMW-SO-001-013	7/15/86	0.152	SOIL	SOIL BORING	26.0-28.0	
SMW-SO-001-014	7/15/86	0.152	SOIL	SOIL BORING	28.0-30.0	
SMW-SO-002-001	7/16/86	0.152	SOIL	SOIL BORING	0.0-2.0	
SMW-SO-002-002	7/16/86	0.152	SOIL	SOIL BORING	2.0-4.0	
SMW-SO-002-003	7/16/86	0.152	SOIL	SOIL BORING	4.0-6.0	
SMW-SO-002-004	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-005	7/16/86	0.152	SOIL	SOIL BORING	6.0-8.0	
SMW-SO-003-006	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-007	7/16/86	0.152	SOIL	SOIL BORING	8.0-10.0	
SMW-SO-003-008	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-009	7/16/86	0.152	SOIL	SOIL BORING	10.0-12.0	
SMW-SO-003-010	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-011	7/16/86	0.152	SOIL	SOIL BORING	12.0-14.0	
SMW-SO-003-012	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-013	7/16/86	0.152	SOIL	SOIL BORING	14.0-16.0	
SMW-SO-003-014	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-015	7/16/86	0.152	SOIL	SOIL BORING	16.0-18.0	
SMW-SO-003-016	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-017	7/16/86	0.152	SOIL	SOIL BORING	18.0-20.0	
SMW-SO-003-018	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-019	7/16/86	0.152	SOIL	SOIL BORING	20.0-22.0	
SMW-SO-003-020	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-021	7/16/86	0.152	SOIL	SOIL BORING	22.0-24.0	
SMW-SO-003-022	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-023	7/16/86	0.152	SOIL	SOIL BORING	24.0-26.0	
SMW-SO-003-024	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-025	7/16/86	0.152	SOIL	SOIL BORING	26.0-28.0	
SMW-SO-003-026	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-027	7/16/86	0.152	SOIL	SOIL BORING	28.0-30.0	
SMW-SO-003-028	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-029	7/16/86	0.152	SOIL	SOIL BORING	30.0-32.0	
SMW-SO-003-030	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-031	7/16/86	0.152	SOIL	SOIL BORING	32.0-34.0	
SMW-SO-003-032	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-033	7/16/86	0.152	SOIL	SOIL BORING	34.0-36.0	
SMW-SO-003-034	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-035	7/16/86	0.152	SOIL	SOIL BORING	36.0-38.0	
SMW-SO-003-036	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-037	7/16/86	0.152	SOIL	SOIL BORING	38.0-40.0	
SMW-SO-003-038	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-039	7/16/86	0.152	SOIL	SOIL BORING	40.0-42.0	
SMW-SO-003-040	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-041	7/16/86	0.152	SOIL	SOIL BORING	42.0-44.0	
SMW-SO-003-042	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-043	7/16/86	0.152	SOIL	SOIL BORING	44.0-46.0	
SMW-SO-003-044	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-045	7/16/86	0.152	SOIL	SOIL BORING	46.0-48.0	
SMW-SO-003-046	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-047	7/16/86	0.152	SOIL	SOIL BORING	48.0-50.0	
SMW-SO-003-048	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-049	7/16/86	0.152	SOIL	SOIL BORING	50.0-52.0	
SMW-SO-003-050	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-051	7/16/86	0.152	SOIL	SOIL BORING	52.0-54.0	
SMW-SO-003-052	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-053	7/16/86	0.152	SOIL	SOIL BORING	54.0-56.0	
SMW-SO-003-054	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-055	7/16/86	0.152	SOIL	SOIL BORING	56.0-58.0	
SMW-SO-003-056	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-057	7/16/86	0.152	SOIL	SOIL BORING	58.0-60.0	
SMW-SO-003-058	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-059	7/16/86	0.152	SOIL	SOIL BORING	60.0-62.0	
SMW-SO-003-060	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-061	7/16/86	0.152	SOIL	SOIL BORING	62.0-64.0	
SMW-SO-003-062	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-063	7/16/86	0.152	SOIL	SOIL BORING	64.0-66.0	
SMW-SO-003-064	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-065	7/16/86	0.152	SOIL	SOIL BORING	66.0-68.0	
SMW-SO-003-066	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-067	7/16/86	0.152	SOIL	SOIL BORING	68.0-70.0	
SMW-SO-003-068	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-069	7/16/86	0.152	SOIL	SOIL BORING	70.0-72.0	
SMW-SO-003-070	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-071	7/16/86	0.152	SOIL	SOIL BORING	72.0-74.0	
SMW-SO-003-072	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-073	7/16/86	0.152	SOIL	SOIL BORING	74.0-76.0	
SMW-SO-003-074	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-075	7/16/86	0.152	SOIL	SOIL BORING	76.0-78.0	
SMW-SO-003-076	7/16/86	0.152	SOIL	METHOD DUPLICATE		
SMW-SO-003-077	7/16/86	0.152	SOIL	SOIL BORING	78.0-80.0	
SMW-SO-003-078	7					

## SOIL BORING SAMPLES

SOUTHERN MARYLAND WOOD TREATING  
REMEDIAL INVESTIGATION

## UV FIELD SCREENING DATA - TOTAL PHAs

## SOIL BORINGS

## SAMPLE NUMBER

## SAMPLING DATE

TOTAL MATRIX  
IN SAMPLE, ppmTOTAL PHAs  
IN SAMPLE, ppm

## SITE ACTIVITY

SAMPLE DEPTH,  
feet

## SAMPLE DESCRIPTION

SAMPLE NUMBER	SAMPLING DATE	TOTAL MATRIX IN SAMPLE, ppm	TOTAL PHAs IN SAMPLE, ppm	SITE ACTIVITY	SAMPLE DEPTH, feet	SAMPLE DESCRIPTION
SMIT-SO-B06-001	7/17/86	10.303	-0.117	SOIL BORING	0.0-2.0	
SMIT-SO-B05-002	7/17/86	-0.117	-0.315	SOIL BORING	2.0-4.0	
SMIT-SO-B05-003	7/17/86	-0.218	-0.312	SOIL BORING	4.0-6.0	
SMIT-SO-B05-004	7/17/86	-0.312	-0.312	SOIL BORING	4.0-8.0	
SMIT-SO-B05-005	7/17/86	-0.117	-0.117	SOIL BORING	8.0-10.0	
SMIT-SO-B06-006	7/17/86	-0.218	-0.117	SOIL BORING	10.0-12.0	
SMIT-SO-B06-007	7/17/86	0.119	-0.119	SOIL BORING	12.0-14.0	
SMIT-SO-B06-008	7/17/86	0.119	-0.119	SOIL BORING	14.0-16.0	
SMIT-SO-B06-009	7/17/86	0.119	-0.119	SOIL BORING	16.0-18.0	
SMIT-SO-B06-010	7/17/86	-0.118	-0.118	SOIL BORING	18.0-20.0	
SMIT-SO-B06-011	7/17/86	-0.178	-0.178	SOIL BORING	20.0-22.0	
SMIT-SO-B06-012	7/17/86	-0.264	-0.264	SOIL BORING	22.0-24.0	
SMIT-SO-B06-013	7/17/86	-0.111	-0.111	SOIL BORING	24.0-26.0	
SMIT-SO-B06-014	7/17/86	-0.299	-0.299	SOIL BORING	26.0-28.0	
SMIT-SO-B09-001	7/17/86	-0.703	-0.703	SOIL BORING	0.0-2.0	
SMIT-SO-B09-002	7/17/86	2.423	-0.703	SOIL BORING	2.0-4.0	
SMIT-SO-B09-003	7/17/86	1.110	-0.703	SOIL BORING	4.0-6.0	
SMIT-SO-B09-004	7/17/86	0.564	-0.703	SOIL BORING	6.0-8.0	
SMIT-SO-B09-005	7/17/86	0.449	-0.703	SOIL BORING	8.0-10.0	
SMIT-SO-B09-006	7/17/86	-0.301	-0.703	SOIL BORING	10.0-12.0	
SMIT-SO-B09-007	7/17/86	-0.159	-0.703	SOIL BORING	12.0-14.0	
SMIT-SO-B09-008	7/17/86	-0.339	-0.703	SOIL BORING	14.0-16.0	
SMIT-SO-B09-009	7/17/86	-0.117	-0.703	SOIL BORING	16.0-18.0	
SMIT-SO-B09-010	7/17/86	2.914	-0.703	SOIL BORING	18.0-20.0	
SMIT-SO-B09-011	7/17/86	0.298	-0.703	SOIL BORING	20.0-22.0	
SMIT-SO-B09-012	7/17/86	-0.232	-0.703	SOIL BORING	22.0-24.0	
SMIT-SO-B09-013	7/17/86	-0.173	-0.703	SOIL BORING	24.0-26.0	
SMIT-SO-B07-001	7/18/86	51.657	-0.039	SOIL BORING	0.0-2.0	
SMIT-SO-B07-002	7/18/86	-0.039	-0.416	SOIL BORING	2.0-4.0	
SMIT-SO-B07-003	7/18/86	-0.413	-0.413	SOIL BORING	4.0-6.0	
SMIT-SO-B07-004	7/18/86	-0.413	-0.413	SOIL BORING	6.0-8.0	
SMIT-SO-B07-005	7/18/86	-0.410	-0.410	SOIL BORING		
SMIT-SO-B07-006	7/18/86	0.013	-0.013	SOIL BORING		
SMIT-SO-B07-007	7/18/86	-0.516	-0.516	SOIL BORING		
SMIT-SO-B07-008	7/18/86	-0.416	-0.416	SOIL BORING		
SMIT-SO-B07-009	7/18/86	0.222	-0.222	SOIL BORING		
SMIT-SO-B07-010	7/18/86	-0.019	-0.019	SOIL BORING		
SMIT-SO-B07-011	7/18/86	-0.022	-0.022	SOIL BORING		
SMIT-SO-B07-012	7/18/86	0.003	-0.003	SOIL BORING		
SMIT-SO-B07-013	7/18/86	-0.314	-0.314	SOIL BORING		
SMIT-SO-B07-014	7/18/86	0.137	-0.137	SOIL BORING		
SMIT-SO-B07-015	7/18/86	-0.516	-0.516	SOIL BORING		
SMIT-SO-B07-016	7/18/86	-0.612	-0.612	SOIL BORING		
SMIT-SO-B07-017	7/18/86	-0.417	-0.417	SOIL BORING		
SMIT-SO-B07-018	7/18/86	-0.416	-0.416	SOIL BORING		
SMIT-SO-B07-019	7/18/86	-0.416	-0.416	SOIL BORING		
SMIT-SO-B07-020	7/18/86	51.730	-0.398	SOIL BORING	0.0-2.0	
SMIT-SO-B07-021	7/18/86	38.061	-0.453	SOIL BORING	2.0-4.0	
SMIT-SO-B07-022	7/18/86	0.637	-0.637	SOIL BORING	4.0-6.0	
SMIT-SO-B07-023	7/18/86	9.882	-5.453	SOIL BORING	6.0-8.0	
SMIT-SO-B12-001	7/19/86	235.793	-11.007	SOIL BORING	0.0-2.0	
SMIT-SO-B12-002	7/19/86	6.666	-5.453	SOIL BORING	2.0-4.0	
SMIT-SO-B12-003	7/19/86	7.935	-11.007	SOIL BORING	4.0-6.0	
SMIT-SO-B12-004	7/19/86	7.935	-11.007	SOIL BORING	6.0-8.0	
SMIT-SO-B12-005	7/19/86	7.935	-11.007	SOIL BORING	8.0-10.0	

K1-1(FD) 1,1-dm nitro

10/10/86

4R 301197

## SOIL BORING SAMPLES

## SOUTHERN MARYLAND MOUD TREATING

ENVIRONMENTAL INVESTIGATION  
UV FIELD SCREENING DATA - TOTAL PHOS

## SOIL BORINGS

## SAMPLE NUMBER      SAMPLING DATE      TOTAL PHOS. IN SAMPLE, ppm

SAMPLE NUMBER	SAMPLING DATE	TOTAL PHOS. IN SAMPLE, ppm	SAMPLE MATRIX	SITE ACTIVITY	SAMPLE DEPTH, feet	SAMPLE DESCRIPTION
SMNT-SO-812-007	7/19/86	0.626	SOIL	SOIL BORING	12.0-14.0	
SMNT-SO-812-008	7/19/86	45.168	SOIL	SOIL BORING	14.0-16.0	
SMNT-SO-811-001	7/19/86	48.98	SOIL	SOIL BORING	0.0-2.0	
B11-001D, 1/500 DILUT	7/19/86	48.98, 6.37	SOIL	SOIL BORING	2.0-4.0	
B11-002D, 1/100 DILUT	7/19/86	532.976	SOIL	SOIL BORING	4.0-6.0	
SMNT-SO-811-003	7/19/86	1853.350	SOIL	SOIL BORING	6.0-8.0	
B11-003D, 1/500 DILUT	7/19/86	40.916	SOIL	SOIL BORING	8.0-10.0	
SMNT-SO-811-005	7/19/86	263.119	SOIL	SOIL BORING	10.0-12.0	
B11-003D, 1/20 DILUT	7/19/86	82018.674	SOIL	SOIL BORING	12.0-14.0	
SMNT-SO-811-006	7/19/86	7869.515	SOIL	SOIL BORING	14.0-16.0	
B11-003D, 1/200 DILUT	7/19/86	769.450	SOIL	SOIL BORING	16.0-18.0	
SMNT-SO-811-007	7/19/86	81.810	SOIL	SOIL BORING	18.0-20.0	
B11-003D, 1/10 DILUT	7/19/86	77.168	SOIL	SOIL BORING		
SMNT-SO-811-009	7/19/86	40.760	SOIL	SOIL BORING		
SMNT-SO-811-010	7/19/86	108.247	SOIL	SOIL BORING		
B11-010D, 1/10	7/21/86	70.152	SOIL	SOIL BORING	20.0-22.0	
SMNT-SO-811-011	7/21/86	73.714	SOIL	SOIL BORING		
SMNT-SO-SS1-001	7/21/86	1.857	SOIL	SOIL BORING	0.0-0.5	
SMNT-SO-SS1-002	7/21/86	0.830	SOIL	SOIL BORING	0.5-1.0	
SMNT-SO-SS1-003	7/21/86	0.648	SOIL	SOIL BORING	1.0-2.0	
SMNT-SO-SS2-001	7/21/86	1.947	SOIL	SOIL BORING	0.0-0.5	
SMNT-SO-SS2-002	7/21/86	0.719	SOIL	SOIL BORING	0.5-1.0	
SMNT-SO-SS2-003	7/21/86	1.988	SOIL	SOIL BORING	1.0-2.0	
SMNT-SO-SS3-001	7/21/86	5.359	SOIL	SOIL BORING	0.0-0.5	
SMNT-SO-SS3-002	7/21/86	0.077	SOIL	SOIL BORING	0.5-1.0	
SMNT-SO-SS3-003	7/21/86	0.424	SOIL	SOIL BORING	1.0-2.0	
SMNT-SO-SS4-001	7/21/86	2.156	SOIL	SOIL BORING	0.0-0.5	
SMNT-SO-SS4-002	7/21/86	0.127	SOIL	SOIL BORING	0.5-1.0	
SMNT-SO-SS5-003	7/21/86	-0.304	SOIL	SOIL BORING	1.0-2.0	
SMNT-SO-SS5-004	7/21/86	13.831	SOIL	SOIL BORING	0.0-0.5	
SMNT-SO-SS5-005	7/21/86	0.183	SOIL	SOIL BORING	0.5-1.0	
SMNT-SO-SS5-006	7/21/86	1.191	SOIL	SOIL BORING	1.0-2.0	
SMNT-SO-SS5-007	7/21/86	36.925	SOIL	SOIL BORING	0.0-0.5	
SMNT-SO-SS5-002	7/21/86	0.734	SOIL	SOIL BORING	0.5-1.0	
SMNT-SO-SS5-003	7/21/86	1.817	SOIL	SOIL BORING	1.0-2.0	
SMNT-SO-810-001	7/22/86	51.084	SOIL	SOIL BORING	0.0-2.0	
B10-010D, 1/10 DILUT	7/22/86	48.468	SOIL	SOIL BORING	2.0-4.0	
SMNT-SO-810-002	7/22/86	-0.226	SOIL	SOIL BORING		
B10-010D, 1/10 DILUT	7/22/86	-0.494	SOIL	SOIL BORING	4.0-6.0	
SMNT-SO-810-003	7/22/86	-0.287	SOIL	SOIL BORING	6.0-8.0	
SMNT-SO-810-004	7/22/86	55.445	SOIL	SOIL BORING	8.0-10.0	
SMNT-SO-810-005	7/22/86	42.050	SOIL	SOIL BORING	10.0-12.0	
B10-010D, 1/10 DIL	7/22/86	-0.421	SOIL	SOIL BORING	12.0-14.0	
SMNT-SO-810-006	7/22/86	-0.011	SOIL	SOIL BORING		
SMNT-SO-810-007	7/22/86	-0.168	SOIL	SOIL BORING	14.0-16.0	
SMNT-SO-810-008	7/22/86	-0.138	SOIL	SOIL BORING	16.0-18.0	
SMNT-SO-810-009	7/22/86	-0.075	SOIL	SOIL BORING	18.0-20.0	
SMNT-SO-810-010	7/22/86	3.560	SOIL	SOIL BORING	20.0-22.0	
SMNT-SO-810-011	7/22/86	-0.421	SOIL	SOIL BORING		
SMNT-SO-810-012	7/22/86	0.000	SOIL	SOIL BORING	0.0-2.0	
SMNT-SO-810-013	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-014	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-015	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-016	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-017	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-018	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-019	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-020	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-021	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-022	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-023	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-024	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-025	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-026	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-027	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-028	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-029	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-030	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-031	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-032	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-033	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-034	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-035	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-036	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-037	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-038	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-039	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-040	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-041	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-042	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-043	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-044	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-045	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-046	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-047	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-048	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-049	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-050	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-051	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-052	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-053	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-054	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-055	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-056	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-057	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-058	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-059	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-060	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-061	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-062	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-063	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-064	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-065	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-066	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-067	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-068	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-069	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-070	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-071	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-072	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-073	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-074	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-075	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-076	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-077	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-078	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-079	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-080	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-081	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-082	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-083	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-084	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-085	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-086	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-087	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-088	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-089	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-090	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-091	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-092	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-093	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-094	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-095	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-096	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-097	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-098	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-099	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-100	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-101	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-102	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-103	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-104	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-105	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-106	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-107	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-108	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-109	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-110	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-111	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-112	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-113	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-114	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-115	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-116	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-117	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-118	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-119	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-120	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-121	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-122	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-123	7/22/86		SOIL	SOIL BORING		
SMNT-SO-810-124	7/22/86		SOIL	SOIL BORING		</

## SOIL BORING SAMPLES

SOUTHERN MARYLAND WOOD TREATING  
REMEDIAL INVESTIGATION

IW FIELD SCREENING DATA - TOTAL PHAs

SOIL BORINGS

SAMPLE NUMBER	SAMPLING DATE	TOTAL PHAs IN SAMPLE, ppb	SAMPLE MATRIX	SITE ACTIVITY	SAMPLE DEPTH, feet	SAMPLE DESCRIPTION
SMWT-SO-B08-0090	7/22/86	1.743	SOIL	METHOD DUPLICATE	18.0-20.0	SOIL BORING
SMWT-SO-B08-010	7/22/86	-0.416	SOIL	SOIL BORING	20.0-22.0	SOIL BORING
SMWT-SO-B08-011	7/22/86	-0.507	SOIL	SOIL BORING	22.0-24.0	SOIL BORING
SMWT-SO-B08-012	7/22/86	-0.192	SOIL	SOIL BORING	24.0-26.0	SOIL BORING
SMWT-SO-B02-001	7/23/86	0.001	SOIL	SOIL BORING	0.0-2.0	SOIL BORING
SMWT-SO-B02-002	7/23/86	-0.179	SOIL	SOIL BORING	2.0-4.0	SOIL BORING
SMWT-SO-B02-003	7/23/86	-0.356	SOIL	SOIL BORING	4.0-6.0	SOIL BORING
SMWT-SO-B02-004	7/23/86	-0.089	SOIL	SOIL BORING	6.0-8.0	SOIL BORING
SMWT-SO-B02-005	7/23/86	0.335	SOIL	SOIL BORING	8.0-10.0	SOIL BORING
SMWT-SO-B02-006	7/23/86	-0.237	SOIL	SOIL BORING	10.0-12.0	SOIL BORING
SMWT-SO-B02-006B	7/23/86	-0.114	SOIL	SOIL BORING	12.0-14.0	SOIL BORING
SMWT-SO-B02-007	7/23/86	0.430	SOIL	SOIL BORING	14.0-16.0	SOIL BORING
SMWT-SO-B02-008	7/23/86	0.063	SOIL	SOIL BORING		

AR301199

**APPENDIX G**  
**GEOTECHNICAL DATA**

AR301200